HCD-D117

SERVICE MANUAL

US Model
Canadian Model
AEP Model
East European Model
UK Model

• HCD-D117 is the STEREO DECK RECEIVER in LBT-D117CD.

SPECIFICATIONS

Tuner

System: FM stereo; FM/AM superheterodyne tuner

FM tuner section
- Tuning range: 87.5 to 108 MHz
- Antenna: 75 ohms unbalanced
- Intermediate frequency: 10.7 MHz

MW/LW tuner section
- Tuning range: MW:530 to 1,710 kHz(US,Canadian model); MW:532 to 1,611 kHz(IT model); MW:531 to 1,602 kHz(other models); L W:153 to 279 kHz(other models); L W:144 to 288 kHz(IT model)
- Antenna: AM loop antenna; External antenna terminal
- Intermediate frequency: 450 kHz

Amplifier

DIN power output: 20 W + 20 W (6 ohms, at 1 kHz)

Continuous RMS power output: 23 W + 23 W (6 ohms, at 1 kHz, 5% THD)

Music power output: 40 W + 40 W (6 ohms)

Input	Jack type	Sensitivity	Impedance
VIDEO IN	Phono	300 mV	47 kohms
PHONO IN	Phono	3 mV	47 kohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response: VIDEO: 15 Hz to 50 kHz $^{+0}_{-3}$ dB

Cassette deck

Recording system: 4-track 2-channel stereo

Frequency response: DOLBY NR OFF
- With Type II cassette (Sony UX-S): 40 Hz to 14 kHz (±3 dB)
- With Type I cassette (Sony HF-S): 40 Hz to 13 kHz (±3 dB)

Model Name Using Similar Mechanism	HST-D107
Tape Transport Mechanism Type	TCM-180VW-H7
Model Name Using Similar Mechanism	HCD-D115
CD Mechanism Type	CDM14L-5BD1
Base Unit Name	BU-5BD1

Wow and flutter: W.PEAK ±0.2% (DIN)

Compact disc player

Frequency response: 2 Hz to 20 kHz ± 0.5 dB

Signal-to-noise ratio: More than 93 dB

Dynamic range: More than 90 dB

Harmonic distortion: Less than 0.008% (1 kHz)

Channel separation: More than 90 dB (1 kHz)

120 V AC, 60 Hz (US Canadian model)
220–230 V AC,50/60 Hz (AEP,IT model)

General

Power requirements: 240 V AC, 50 Hz

Power consumption: 150 W (UK model); 75 W (other models)

Weight: Approx. 8.6 kg (18 lb 15oz)

Dimensions: Approx. 355 × 380 × 325 mm (14 × 15 × 12⅞ inches) (w/h/d, including projections)

Supplied accessories

45-rpm adaptor (1)
Remote commander RM-S171 (1)
FM wire antenna (1)
AM loop antenna (1)
Batteries Sony SUM-3 (NS) (2)

Design and specifications subject to change without notice.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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COMPACT HiFi STEREO SYSTEM

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

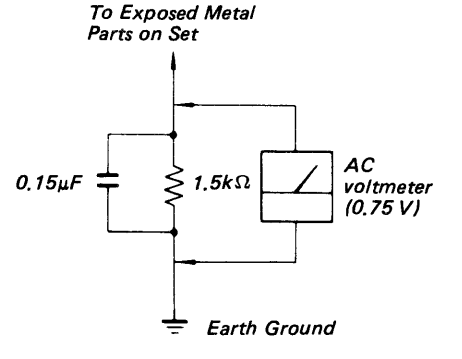

Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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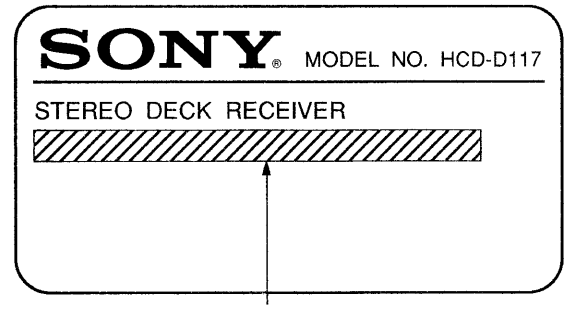
MODEL IDENTIFICATION

— Model Number Portion —



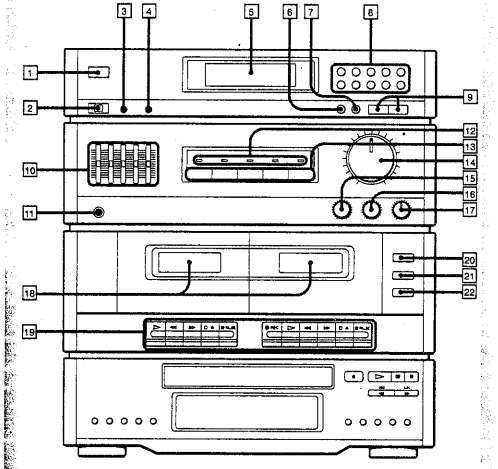
US, Canadian model : AC : 120 V ~ 60Hz
AEP, Germany, Italian, East European model : AC : 220—230V ~ 50/60Hz
UK model : AC : 240V ~ 50Hz

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual.

Location of Controls



Refer to the pages indicated in ( ) for details.

Tuner

1 POWER switch (6)
2 Remote sensor
3 MEMORY button (10)
4 ST/MUTE button (9)
5 Display window
6 SHIFT button (10)
7 BAND SELECT button (9)
8 Buttons for storing station frequencies (10)
9 DUAL MODE TUNING buttons (9, 10)

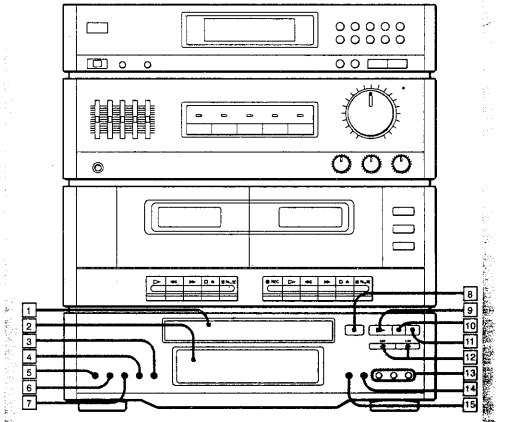
Amplifier

10 GRAPHIC EQUALIZER controls (7)
11 HEADPHONES jack
12 Function indicators
13 Function selectors (VIDEO/TAPE/CD/TUNER/PHONO)
14 VOLUME control (7)
15 SURROUND control (7)
16 DBFB (dynamic bass feedback) control (7)
17 BALANCE control (7)

Cassette Deck

18 Cassette holders
19 Tape operation buttons (11)
◀◀ Leftward fast winding
▶▶ Rightward fast winding
▶ Forward play
■ ⏏ Stop/eject
❚❚ PAUSE Pause
● REC Record
20 TAPE SELECT button (11, 12, 14)
21 DUBBING SPEED button (14)
22 DOLBY NR (noise reduction) switch (11, 12)

Location of Controls



Compact Disc Player

1 Disc Tray
2 Display window
3 CLEAR (program clear) button (20)
4 CHECK (program check) button (20)
5 TIME button (16)
6 REPEAT button (22)
7 FADE button (26)
8 OPEN/CLOSE ⏏ button (15)
9 ▶ (play) button (15)
10 ❚❚ (pause) button (15)
11 ■ (stop) button (15)
12 ⏮ ◀◀/▶▶ ⏭ (AMS*) buttons (17)
13 PLAY MODE button
PROGRAM button (19)
SHUFFLE button (18)
CONTINUE button (19)
14 MUSIC SCAN button (21)
15 EDIT button (24, 26)

* AMS is the abbreviation of Automatic Music Sensor.

SECTION 2
DISASSEMBLY OF BASE UNIT

Note :

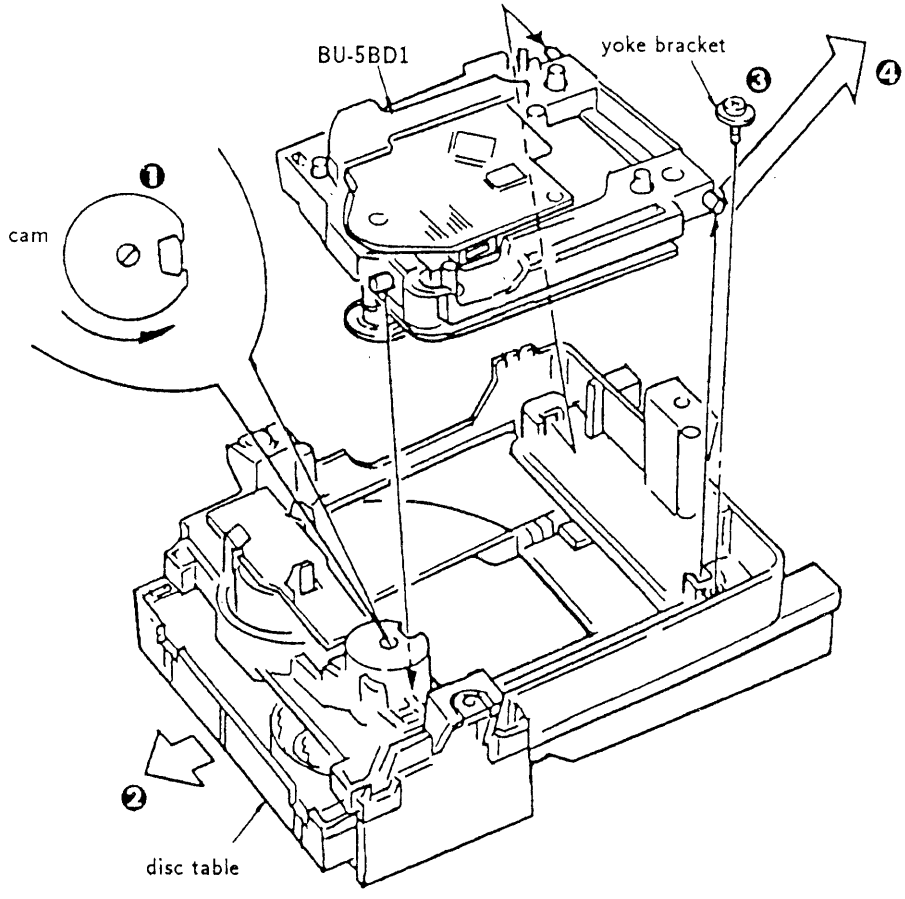
Follow the disassembly procedure in the nomerical order given.

❶ Turn the cam to the direction of arrow (Counter clock wise) by minus screw driver.

❷ Take off the disc table.

❸ Remove the yoke bracket.

❹ Remove the MD (BU-5BD1) to the direction of arrow.



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase heads	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	30—70g•cm (0.42—0.97oz•inch)
FWD Back tension	CQ-102C	1.5—5.5g•cm (0.020—0.076oz•inch)
FF. REW	CQ-201B	63g•cm or more (0.87oz•inch)

3-2. ELECTRICAL ADJUSTMENTS

0dB=0.775V (AF)
0dB=0.1μV (RF)

CASSETTE DECK SECTION

1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

• Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF
TAPE SELECT switch: TYPE I

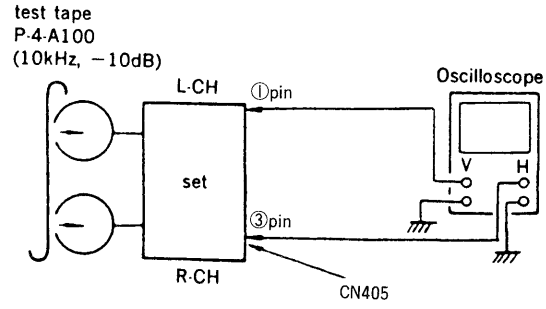
Type	Signal	Used for
P-4-A100	10kHz, −10dB	Azimath Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

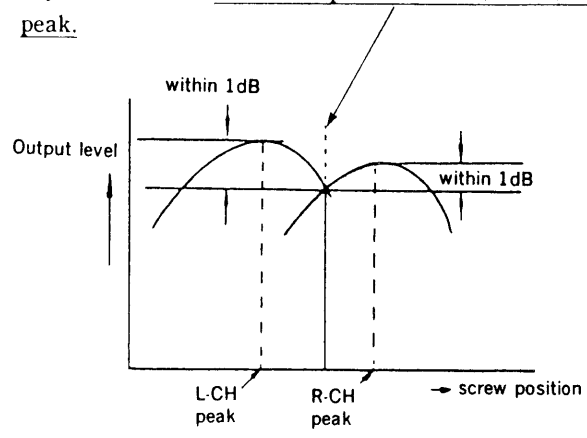
Note: Perform this adjustments for both decks.

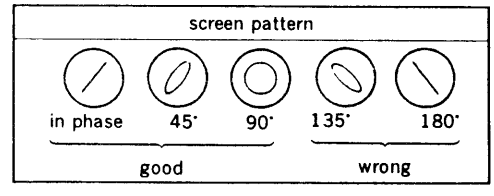
Procedure:

1. Mode: FWD playback



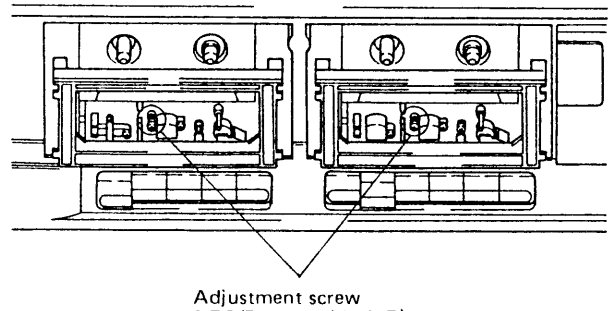
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





3. After the adjustments, apply suitable locking compound to the parts adjusted.

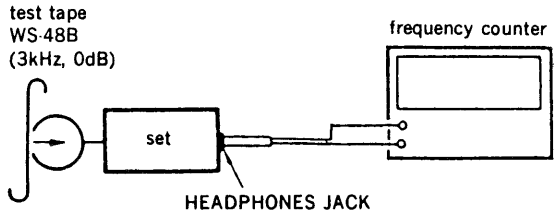
Adjustment Location:



Tape Speed Adjustment

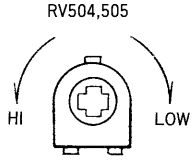
Procedure :

Mode : playback



- High speed adjustment
  1. Short pin CN407. Then at HIGH speed mode.
  2. Adjust RV504 so that the frequency counter reads 6000 ± 20 Hz.
     (Must be first Adjustment B deck)
- NORMAL speed adjustment
  1. Remove the short pin from CN407. Then at NORMAL speed mode.
  2. Adjust RV505 so that the frequency counter reads 3000 ± 10 Hz.

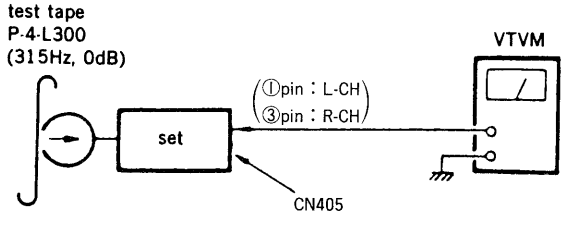
Adjustment Location: TC MAIN board



Playback Level Adjustment

Procedure :

Mode : FWD playback



DECK-A side RV400(L-CH), RV500(R-CH)
DECK-B side RV401(L-CH), RV501(R-CH)
so that the limits below are satisfied.

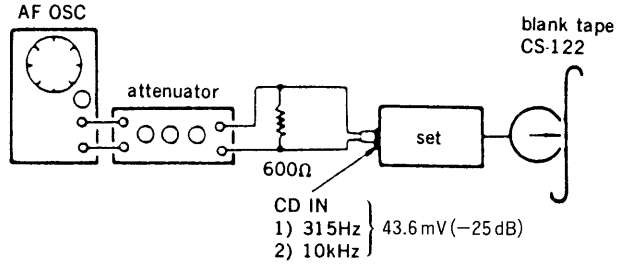
Adjustable limits :

CN405 level: 461.6 − 411.4 mV(−4.5 − −5.5 dB)
level difference between the channels : within 1.0dB
(See page 6 for Adjustment Location)

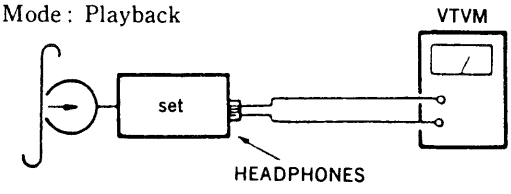
Record BIAS Current Adjustment

Procedure :

1. Mode : record



2. Mode : Playback



(1) Supply a 43.6mV(−25dB) signal (315Hz) from the CD IN. Adjust the VOLUME control so that a 24.5mV(−30dB) signal is output to the headphones terminal.
(2) Insert alignment tape CS-122 into deck B and put the set into the REC mode.
(3) Adjust the signal frequency to 10kHz.
(4) Put the set into the PB mode and adjust RV403(L CH) and RV503(R CH) in the REC mode so that the level difference between 315Hz and 10kHz is within 0±0.5dB.
(5) Repeatedly put the set into the REC and PB modes two to four times and adjust the bias.

Adjustable limits :

The HEADPHONES level of 10kHz signal relative to that of 315Hz : 0dB±0.5dB

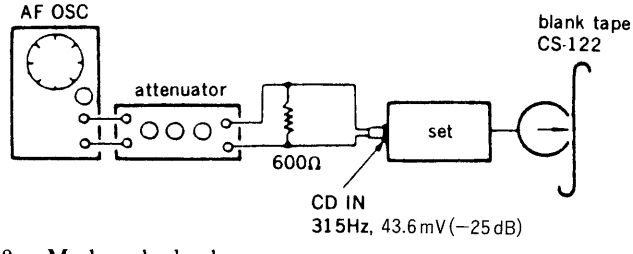
Record Level Adjustment

Setting :

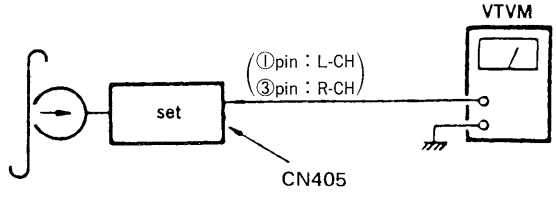
TAPE SELECT : TYPE I

Procedure :

1. Mode : record



2. Mode : playback



(1) Supply a 43.6mV(−25dB) signal (315Hz) from the CD terminal.

(2) Insert alignment tape CS-122 into deck B and record the signal. Then playback the recorded portion of the tape and adjust RV402(L-CH) and RV502(R-CH) so that the 43.6mV (−25dB) signal output is obtained at CN405 terminal.

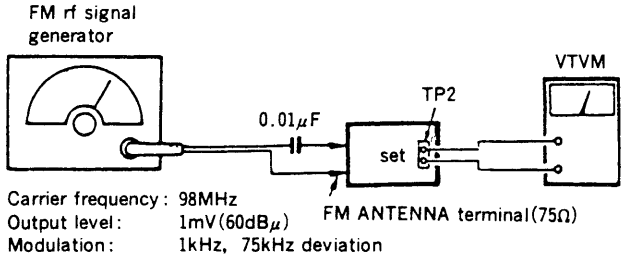
Adjustable limits :

CN405 level : 46.2 — 41.1mV(−24.5 — −25.5dB)

TUNER SECTION

As FM FRONT-END FE301 is difficult to repair if faulty, replace it with new one.

FM NULL Adjustment



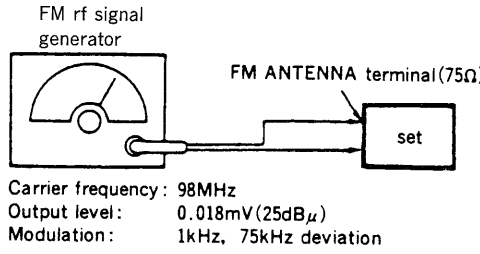
Procedure :

1. Tune the set to 98 MHz.
2. Adjust T301 for 0V reading on the VTVM.

FM Tuned Level Adjustment

Setting:

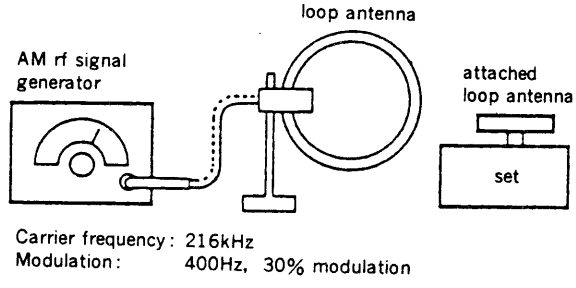
STEREO/MUTE : OFF



Procedure :

1. Tune the set to 98 MHz.
2. Adjust RV302 to the point where "TUNED" sign on FL601 just turns light.

• AM SECTION



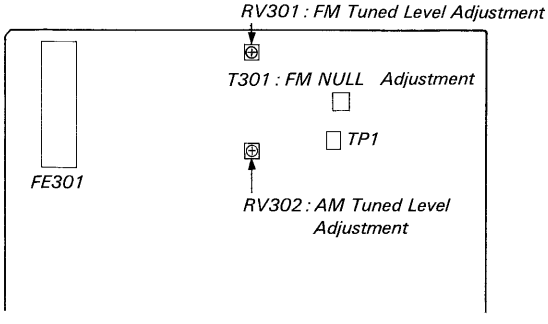
AM Tuned Level Adjustment

• AM BAND

1. Set loop antenna input level to 2.5mV (50 dBμ/m) and no signal tuned light should not on.
2. Tune the set to 1490kHz.
3. Adjust RV301 to the point where "TUNED" sign on FL601 just turns light.

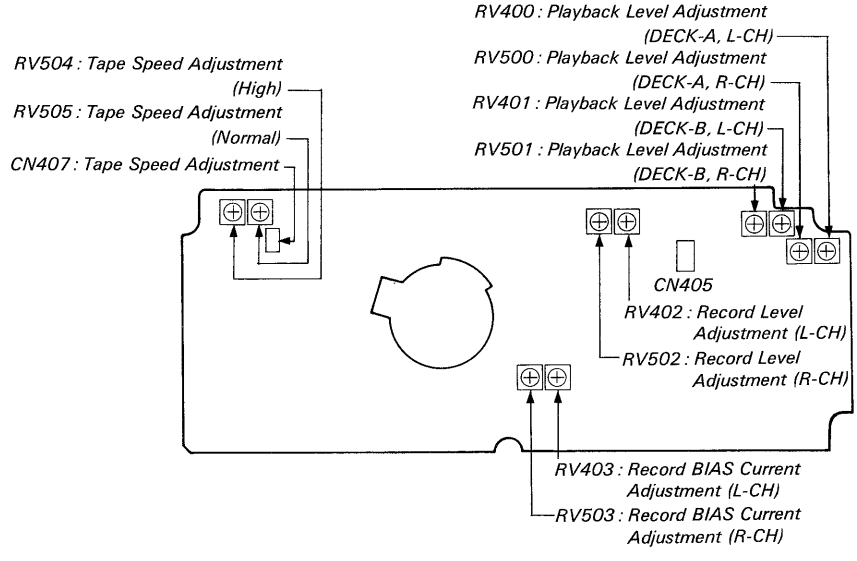
Adjustment Location :

MAIN BOARD (Component side)



Adjustment Location :

TC MAIN BOARD (Component side)


RV400 : Playback Level Adjustment (DECK-A, L-CH)
RV500 : Playback Level Adjustment (DECK-A, R-CH)
RV401 : Playback Level Adjustment (DECK-B, L-CH)
RV501 : Playback Level Adjustment (DECK-B, R-CH)
RV504 : Tape Speed Adjustment (High)
RV505 : Tape Speed Adjustment (Normal)
CN407 : Tape Speed Adjustment
CN405
RV402 : Record Level Adjustment (L-CH)
RV502 : Record Level Adjustment (R-CH)
RV403 : Record BIAS Current Adjustment (L-CH)
RV503 : Record BIAS Current Adjustment (R-CH)

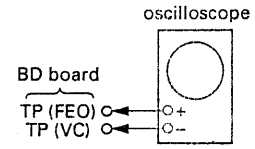
3-3. ELECTRICAL BLOCK CHECKING

CD SECTION

Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

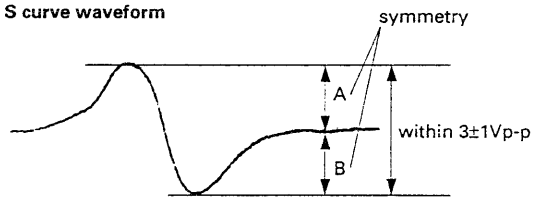
S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

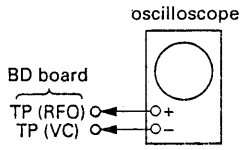
S curve waveform



5. After check, remove the lead wire connected in step 2.

Note :
- Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check



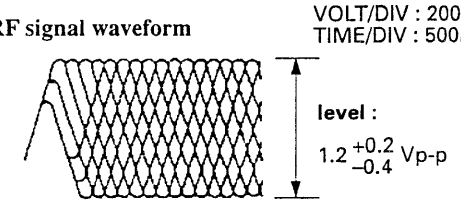
Procedure :

1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

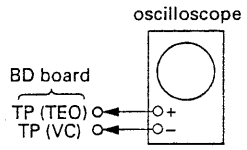
Note :

Clear RF signal waveform means that the shape " ◊ " can be clearly distinguished at the center of the waveform.

RF signal waveform



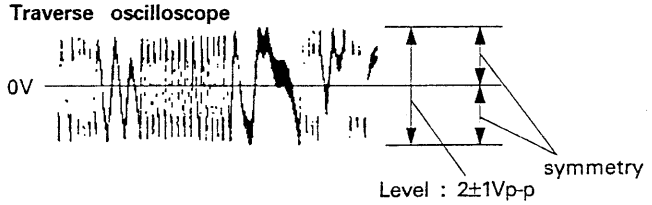
E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse oscilloscope

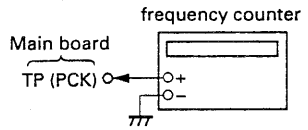


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.

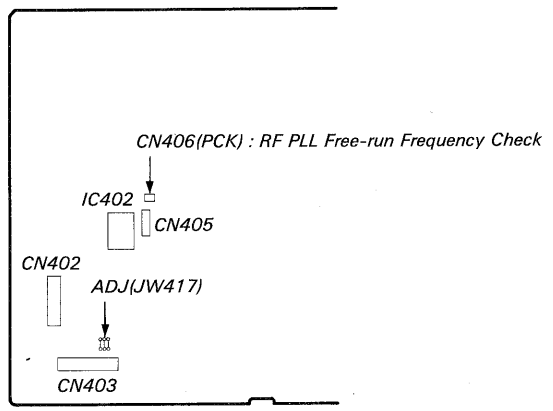


2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

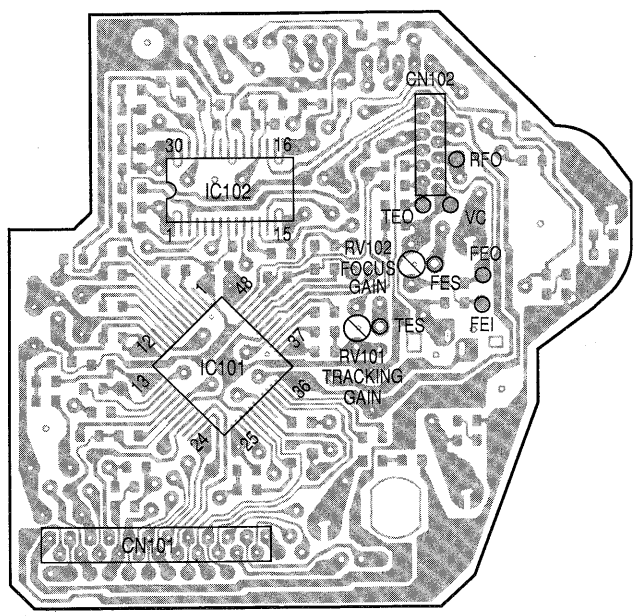
Focus/Tracking Gain

This gain has a margin, so even if it is slightly off.
There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

[MAIN BOARD] – Component Side –



[BD BOARD] – Conductor Side –



SECTION 4
DIAGRAMS

4-1. PRINTED WIRING BOARDS –AUDIO Section–

• See page 34 for circuit boards location and semiconductor lead layouts.

● Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D351	E-18	IC301	G-19	Q522	C-22
D601	D-5	IC401	C-28	Q531	D-22
D602	E-10	IC402	G-28	Q532	C-22
D603	D-5	IC404	E-30	Q601	D-5
D604	E-10	IC406	D-30	Q602	F-13
D611	F-8	IC407	C-30	Q1001	G-22
D612	F-8	IC501	E-21	Q1002	G-22
D613	F-8	IC601	E-8	Q1034	D-24
D614	F-8	IC602	F-14	Q1035	E-23
D618	G-5	IC1001	C-23	Q1101	I-6
D621	F-9	IC1002	E-23	Q1102	H-4
D624	F-9	IC1003	I-23	Q1121	G-8
D625	F-9	IC1004	G-23	Q1122	G-6
D636	F-9	IC1101	I-9	Q1136	G-8
D641	E-6	IC1102	F-11	Q1138	G-8
D1130	H-10	IC1103	G-4	Q1139	H-9
D1131	H-8	IC1104	G-7	Q1141	G-5
D1132	H-6	IC1201	C-15	Q1143	G-6
D1133	H-7	IC1202	F-27	Q1144	G-6
D1134	H-9	IC1303	H-26	Q1145	G-6
D1145	G-2	IC1304	G-25	Q1151	I-7
D1151	G-7	IC1305	F-25	Q1152	G-4
D1152	G-7	IC1306	C-24	Q1201	C-16
D1153	G-6			Q1202	F-16
D1201	C-16	Q301	D-20	Q1203	F-16
D1202	D-27	Q302	D-20	Q1204	H-27
D1203	C-27	Q303	E-20	Q1251	F-16
D1204	F-27	Q304	E-20	Q1301	A-33
D1251	E-16	Q305	I-20	Q1302	H-25
D1302	C-26	Q306	I-20	Q1303	C-25
D1303	C-25	Q307	H-21	Q1304	C-24
D1304	C-24	Q308	H-21		
D1305	C-25	Q309	H-21		
D1306	C-25	Q351	D-19		
D1307	A-33	Q352	C-19		
D1309	A-33	Q353	D-19		
D1311	A-34	Q354	E-19		
D1318	B-25	Q355	E-18		
D1319	B-25	Q356	E-19		
D1321	H-26	Q413	J-28		
D1323	D-25	Q414	J-28		
D1324	D-25	Q415	J-28		
D1341	H-26	Q501	F-18		
D1368	B-25	Q502	F-18		
D1369	B-25	Q521	C-22		

Note:

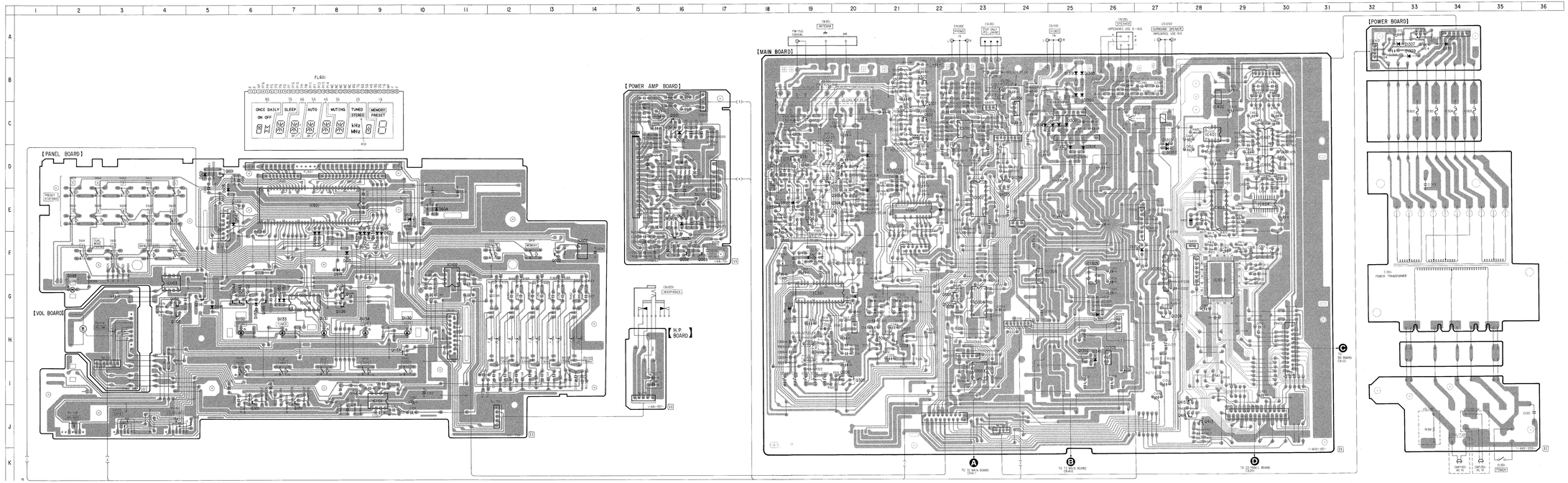
● ○—— : parts extracted from the component side.

CND : Canadian

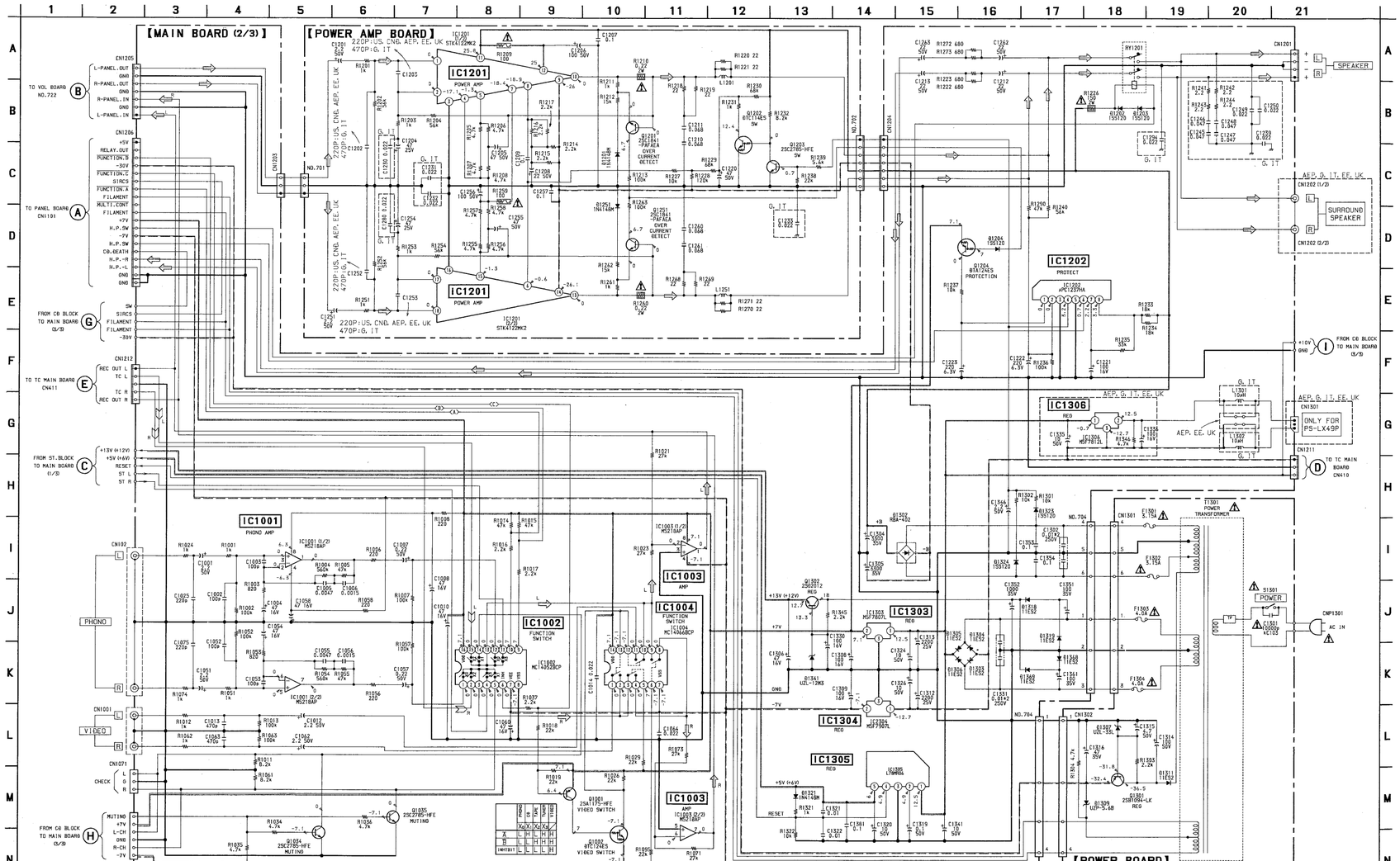
G : Germany

IT : Italian

EE : East European

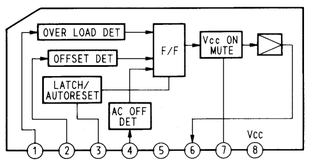


4-2. SCHEMATIC DIAGRAMS –AUDIO Section–



● IC Block Diagrams

IC1202 μPC1237HA



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : printed resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line
- : B– Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : FM : PB (DECK A)

CND:Canadian

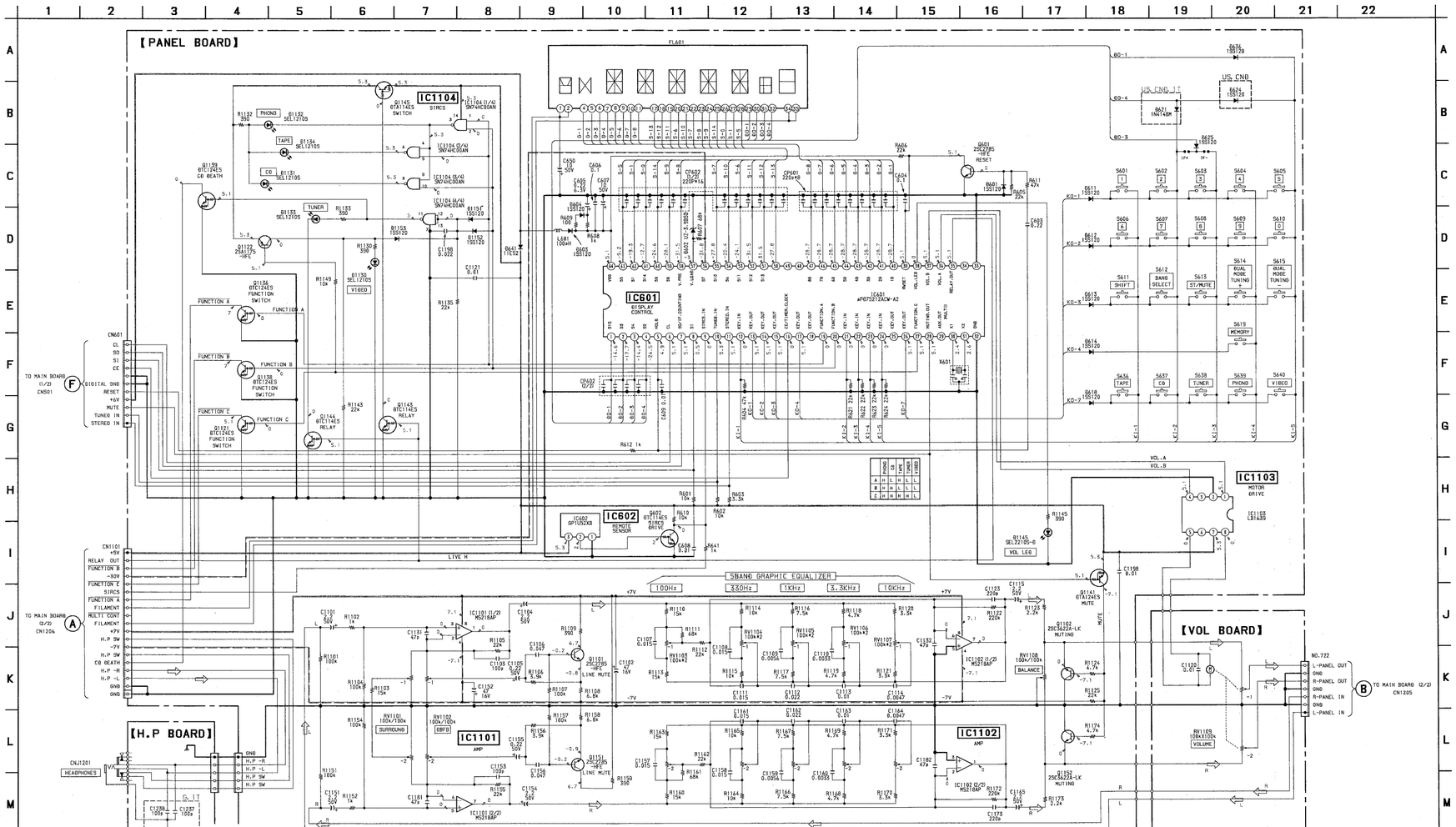
G:Germany

IT:Italian

EE : East European

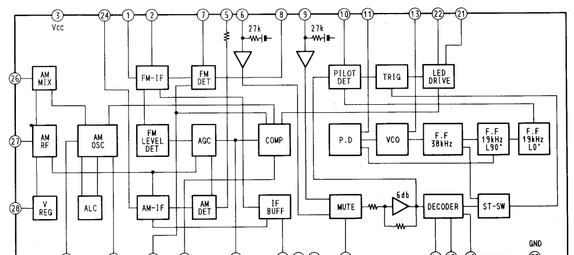
4-3. SCHEMATIC DIAGRAMS –PANEL Section–

• See page 17 for note.

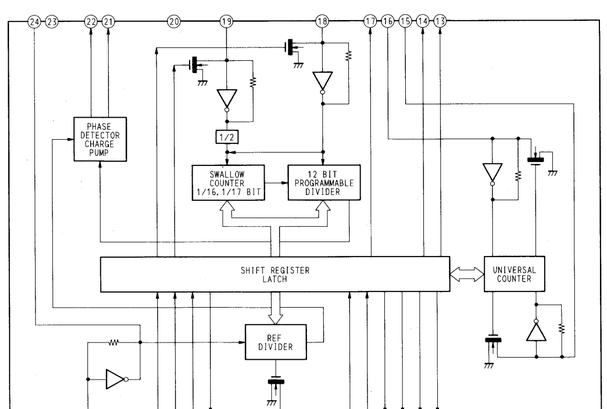


● IC Block Diagrams

IC301 LA1851N



IC501 LC7218



4-4. SCHEMATIC DIAGRAMS –TUNER Section–

• See page 17 for note.

【MAIN BOARD (1/3)】

US,CND,AEP,EE,UK

TM301 ANTENNA

FM 75Ω

AM

FE301

ANT IN ANT IN GND GND VT +B IF OUT F OUT

Q303 2SC2669-OY FM IF AMP

Q304 2SC2669-OY

R313 100

CF301 MS

CF303 MS

R310 330

R311 27k

R312 560

R309 18k

C307 0.01

C308 0.01

C309 0.01

R302 100

C302 47 25V

C303 0.01

R301 47

AEP,G,IT,EE,UK

C339 30p

G,IT

FE301

ANT IN GND AGC GND VT GND IF OUT +B GND F OUT

Q301 2SC2669-OY FM IF AMP

Q302 2SC2669-OY

Q303 2SC2669-OY FM IF AMP

Q304 2SC2669-OY

R313 100

CF301 MS

R305 330

R306 27k

R304 18k

R307 560

C306 0.01

CF302 MS

CF303 MS

R310 330

R311 27k

R312 820

C308 0.01

C305 0.01

C307 0.01

R309 18k

C309 0.01

R315 33k

C301 0.01

R314 47k

C302 47 16V

C303 0.01

R302 100

R301 47

FM TUNED

AM TUNED

IFT301

RV302 22k

C332 0.01

C331 220

L301 4.7mH

C330 0.01

C329 4.7 100V

RV301 22k

C326 10 50V

C328 0.1 50V

C327 0.01

R328 47k

IC301

AM RF/OSC/MIX/IF DET

FM DET/MPX

IC301 LA1851N

FM-IN FM-SD-ADJ AM-OSC V-REF AM-RF-IN AM-MIX AGC AM-IF ST-LED TU-LED IF-BUFF AM/FM MUTE AM-SD-ADJ

FM-AFC AM-DET-OUT VCC DET FM-DET-OUT VCO-STOP TU-ST-RESET SEP.

R316

R317 1k

T301

R318 33k

C315 0.0068

R319 8.2k

C318 56

R320 56

C321 0.47 50V

C320 0.01

R321 33k

R322 10k

C322 0.1 50V

CF304

C371

C372

R323

C323

C324

C325

C326

C327

C328

C329

C330

C331

C332

C333

C334

C335

C336

C337

C338

C339

C340

C341

C342

C343

C344

R324 10k

R325 10k

R326 270

R327 47k

R328 47k

R329 100

R330 100

R331 330k

R332 330k

R333 2.2k

R334 2.2k

R335 1.8k

R336 1.8k

R337 5.6k

R338 5.6k

LPF301

LPF302

Q308 2SC2785-HFE BUFFER

Q309 2SC2785-HFE BUFFER

Q307 DTC114ES MUTING

Q305 DTA114ES VCO SWITCH

Q306 DTA114ES

C317 680p

T302

G,IT

US,CND:0.01

AEP,G,IT,EE,UK:0.0068

NULL TP1

US,CND,AEP,EE,UK

US,CND,AEP,EE,UK:82

G,IT:33k

US,CND,AEP,EE,UK:1.2k

G,IT:1k

FE351

FE352

US,CND

AEP,G,IT,EE,UK

R351 22k

C351 0.022

R352 47k

C350 0.0018

C353 0.0015

R353 1M

L351 220mH

C354 0.022

Q351 DTC114ES

Q352 2SC2785-HFE

R355 0.4 22k

Q353 2SA1175-HFE

R356 2.2k

R354 100k

R367 27k

R366 470

R368 22k

Q354 DTC114ES

C371

C362 0.022

C360 0.0018

C361 0.1

R361 4.7k

C363 0.1

Q351-356 MW SWITCH

Q355 DTC114ES

C364 0.022

Q351 1SS120

R364 4.7k

R365 10k

Q356 DTC114ES

IC501

PLL

IC501 LC7218

XOUT XIN CE DI CL DO GND PD2 PD1 VDD FM OSC AM OSC FM IF REQ AM IF FM IF SW1 SW2 VCO STOP FM

XT501 7.2MHz

C502 27p CH

C501 27p CH

R501 1k

R502 1k

R503 1k

R504 1k

R505 10k

R506 1k

R507 1k

R508 1k

R509 4.7k

R510 47

R511 10k

R512 10k

R513 4.7k

R514 10k

R515 1k

C503 47 25V

C504 0.01

C505 47 25V

C506 0.01

C507 0.01

Q501,502 FM SWITCH

Q502 DTA114ES

Q501 DTC114ES

AEP,G,IT,EE,UK

R530 100

R526 2.2k

R523 560

C521 2.2 100V

R524 2.2k

R527 4.7k

R528 4.7k

R522 4.7k

Q521

Q522

R529 100

C522 0.1

C523 0.01

C524 0.01

C525 47 25V

R525 270

C533 0.1 (TF)

R531 3.3k

R536 2.2k

R533 560

C532 0.022

R537 4.7k

R532 22k

Q532

R538 100

R534 1k

R535 270

Q521 2SK246-GR3

Q522 2SC3112-B

Q531 2SK246-GR3

Q532 2SC3112-B

LPF

IT

C530 0.01

CN501

CL DI DO CE GND GND RESET 5V MUTING TUNED STEREO

(SD) (S1)

GND RESET 5V 13V R CH GND L CH

F TO PANEL BOARD CN601

C TO MAIN BOARD (2/1)

4-5. SCHEMATIC DIAGRAMS –TC Section–

• See page 17 for note.

【TC MAIN BOARD】

IC400 μPC4570C-1 AMP

IC401 μPC4570C-1 AMP

IC402 MC14066BCP DECK SELECT

IC403 CXA1100P DOLBY AMP

IC404 CXA1198AP REC EQ AMP

IC501 μPD4011BC AMP

IC502 MC14001BCP AMP

IC503 μPD4011BC AMP

IC515 M5F7807L

IC516 M5F7907L

Q400,500 DTC144ES EQ SWITCH

Q401 DTC144ES REC/PB SWITCH

Q402,502 2SC2785-HFE MUTING

Q403,503 2SC2785-HFE REC MUTING

Q504,505 2SC345-P BIAS OSC

Q506 2SC1815 BIAS CTL

Q507 DTA114ES BIAS SWITCH

Q508 DTC114ES RELAY DRIVE

Q509 2SA1175-HFE H/L SWITCH

Q511 DTA144ES MUTING

Q512 DTC144ES H/L SWITCH

Q701-703 DTC144ES EQ SWITCH

D500-502 IN4148M

D503-507 IN4148M

DECK A

DECK B

HP I PB HEAD

HRP I REC/PB HEAD

HE I ERASE HEAD

M I MOTOR

【LEAF SW(A) BOARD】

【LEAF SW(B) BOARD】

【SW BOARD】

S4 MOTOR

S5 FWD

S1 MOTOR

S2 FWD

S3 REC

CN400 CN401 CN402 CN411 CN412 CN415 CN416 CN405 CN406 CN407 CN410

TO MAIN BOARD (2/2) CN1212

TO MAIN BOARD (2/2) CN1211

S701-1 TAPE SELECTOR TYPE I → TYPE II (120Ω) (70Ω)

S701-2 DUBBING SPEED NORMAL → HIGH

S701-3 DOLBY NR OFF → ON

RY400

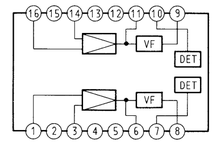
T500

L400 27mH

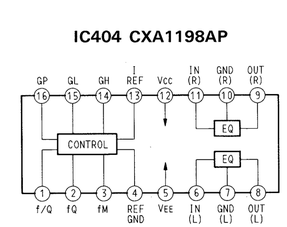
L500 27mH

• IC Block Diagrams

IC403 CXA1100AP



IC404 CXA1198AP

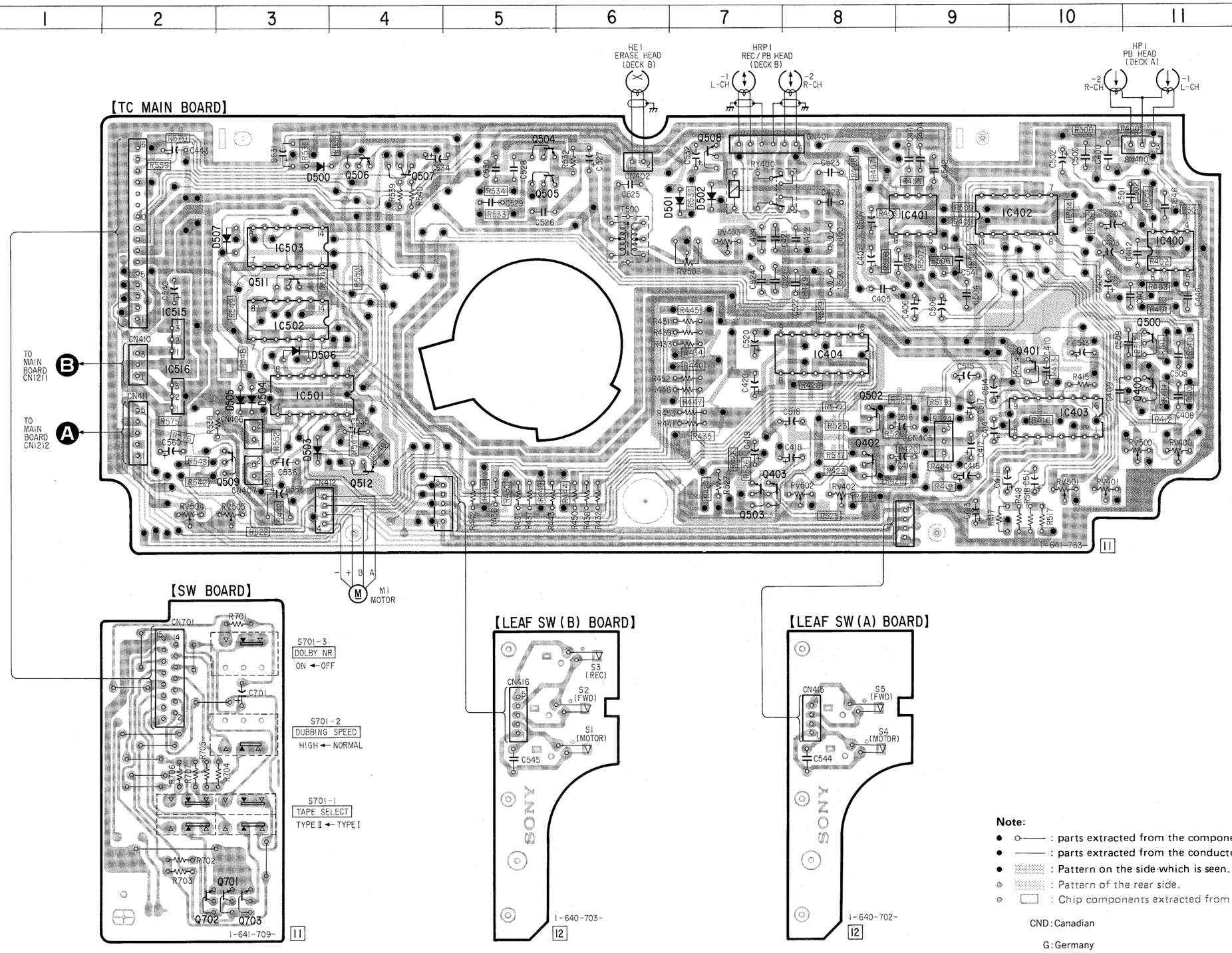


4-6. PRINTED WIRING BOARDS –TC Section–

• See page 34 for circuit boards location and semiconductor lead layouts.

● Semiconductor Location

Ref. No.	Location
D500	B-3
D501	B-7
D502	B-7
D503	D-3
D504	D-3
D505	D-3
D506	C-3
D507	B-3
IC400	B-11
IC401	B-9
IC402	B-10
IC403	D-10
IC404	C-8
IC501	D-3
IC502	C-3
IC503	B-3
IC515	C-2
IC516	D-2
Q400	D-11
Q401	C-10
Q402	D-8
Q403	E-7
Q500	C-11
Q502	D-8
Q503	E-7
Q504	B-5
Q505	B-5
Q506	B-4
Q507	B-4
Q508	B-8
Q509	D-3
Q511	C-3
Q512	D-4
Q701	H-3
Q702	H-2
Q703	H-3



Note:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.
- □ : Chip components extracted from the rear side.

CND : Canadian

G : Germany

IT : Italian

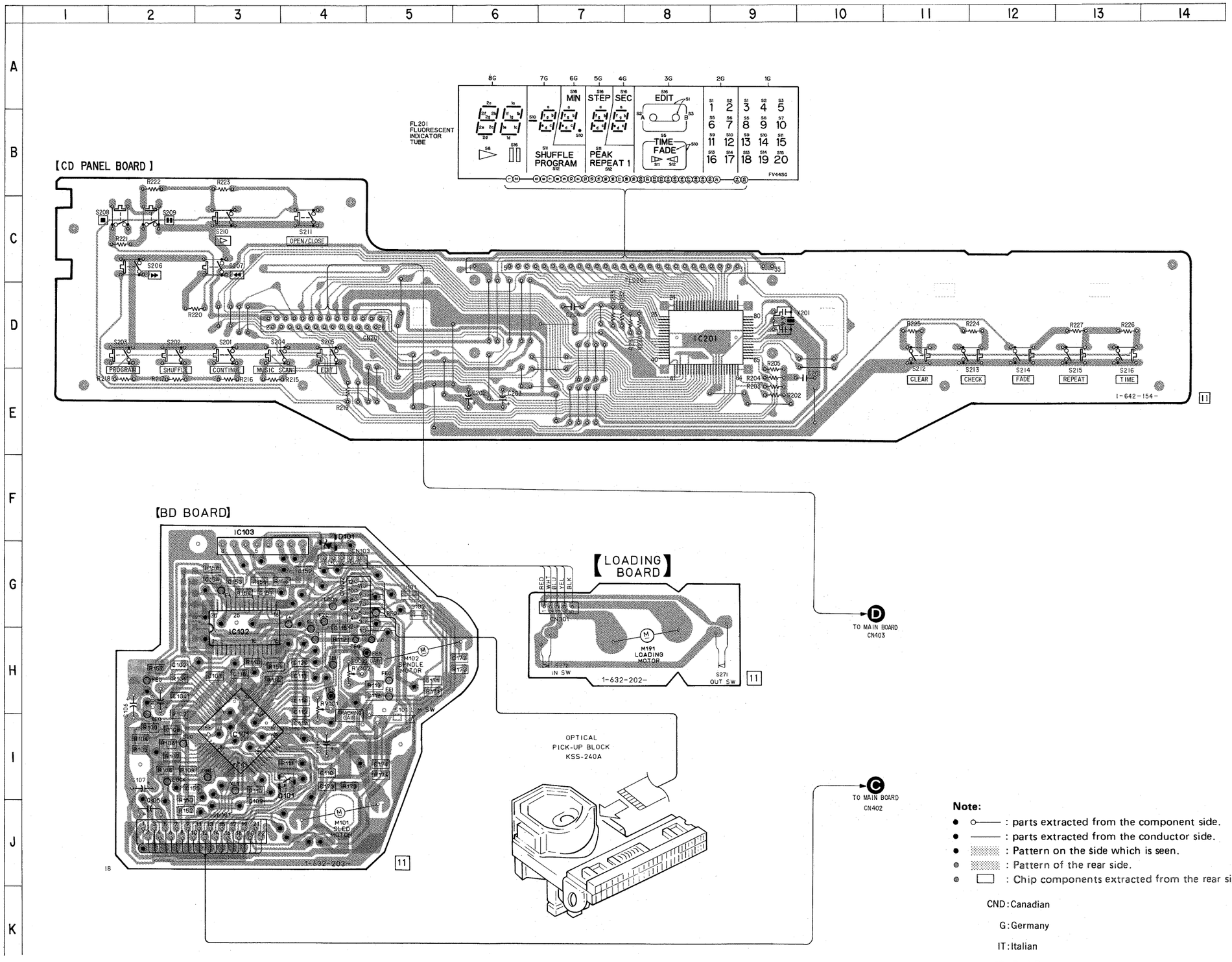
EE : East European

4-7. PRINTED WIRING BOARDS –CD Section–

• See page 34 for circuit boards location and semiconductor lead layouts.

● Semiconductor Location

Ref. No.	Location
D101	F-4
IC101	I-3
IC102	H-3
IC103	F-3
IC201	D-8
Q101	I-4



Note:

- ○——: parts extracted from the component side.
- ——: parts extracted from the conductor side.
- ▒▒: Pattern on the side which is seen.
- ▒▒: Pattern of the rear side.
- ▭: Chip components extracted from the rear side.

CND: Canadian

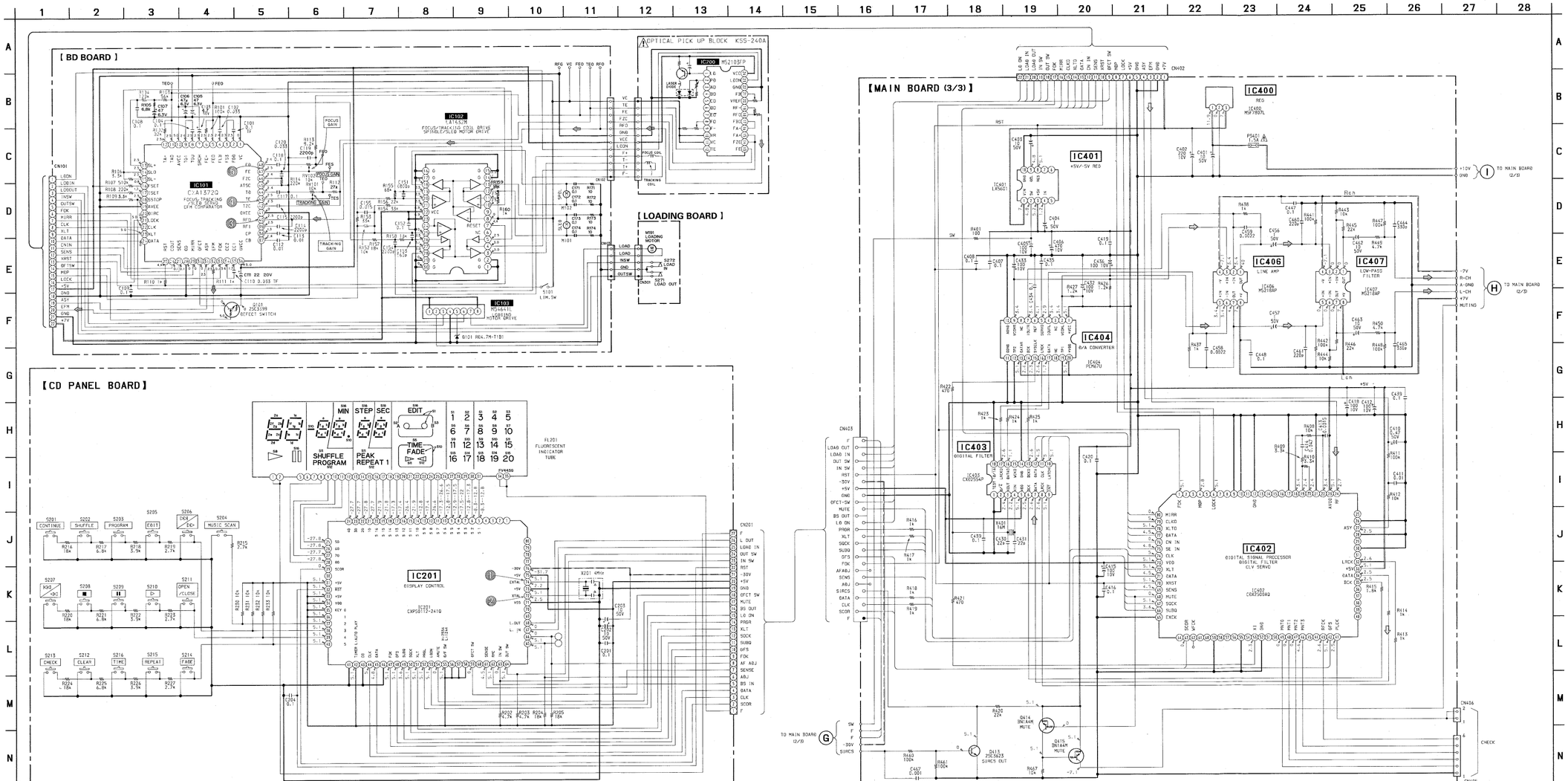
G: Germany

IT: Italian

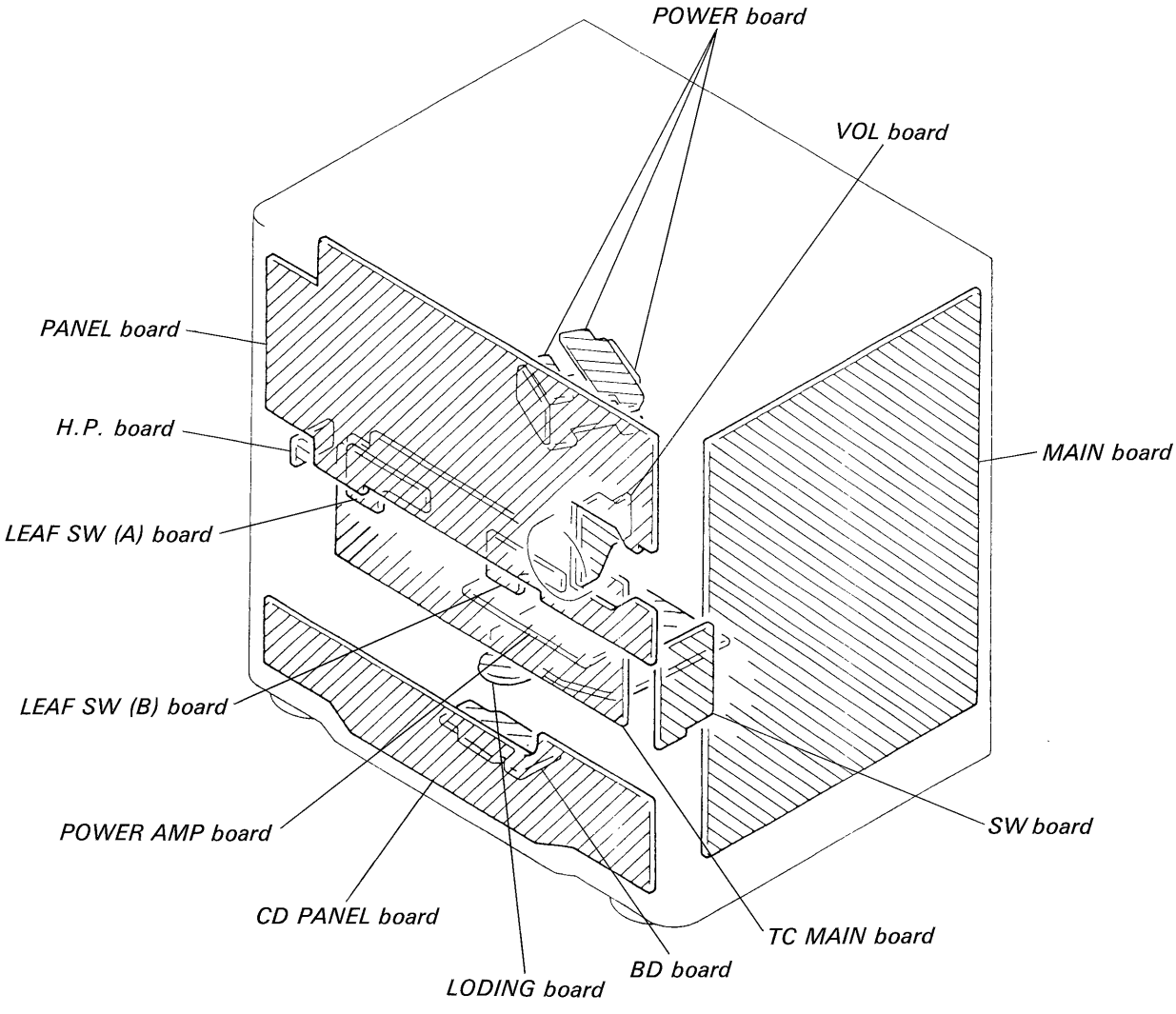
EE : East European

4-8. SCHEMATIC DIAGRAMS –CD Section–

• See page 17 for note.

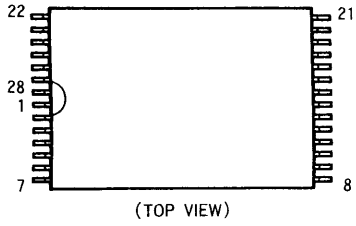


4-9. CIRCUIT BOARDS LOCATION



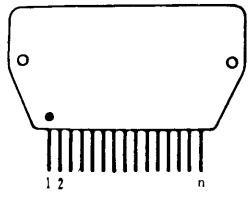
4-10. SEMICONDUCTOR LEAD LAYOUTS

CXA1372AQ



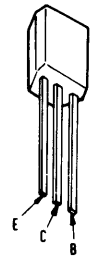
(TOP VIEW)

STK4122MK2

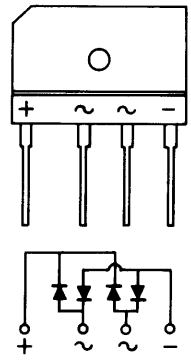


(Making side View)

2SC2669-OY
2SC3623A-LK
DTA114ES
DTA124ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES



PBA-402



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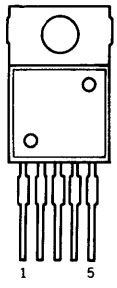

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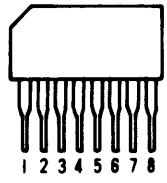
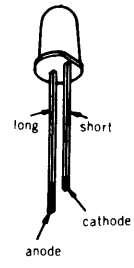


2SC3112-B
2SC3623A-LK
2SC945-P

SEL1210S



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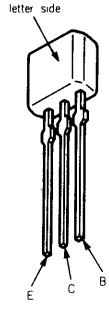
2SC2785-HFE



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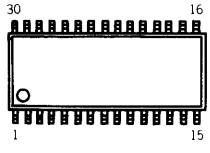
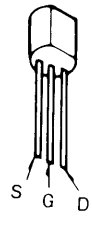
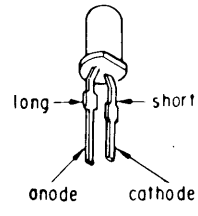


(Top view)

2SK246-GR3



SEL2210S-D



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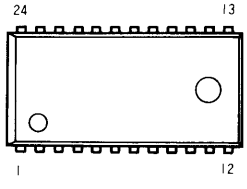

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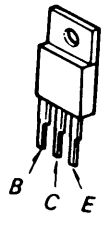
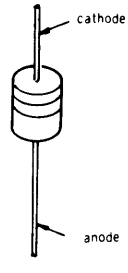
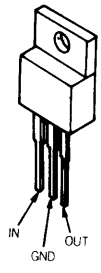
2SC1815-Y
2SD2012



11ES2
1SS120
UZ-3.9BSB
UZL-12M3
UZL-33L
UZP-5.6B



M5F7807L
M5F7812L
M5F7907L



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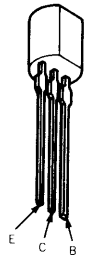


SECTION 5
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE(WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color

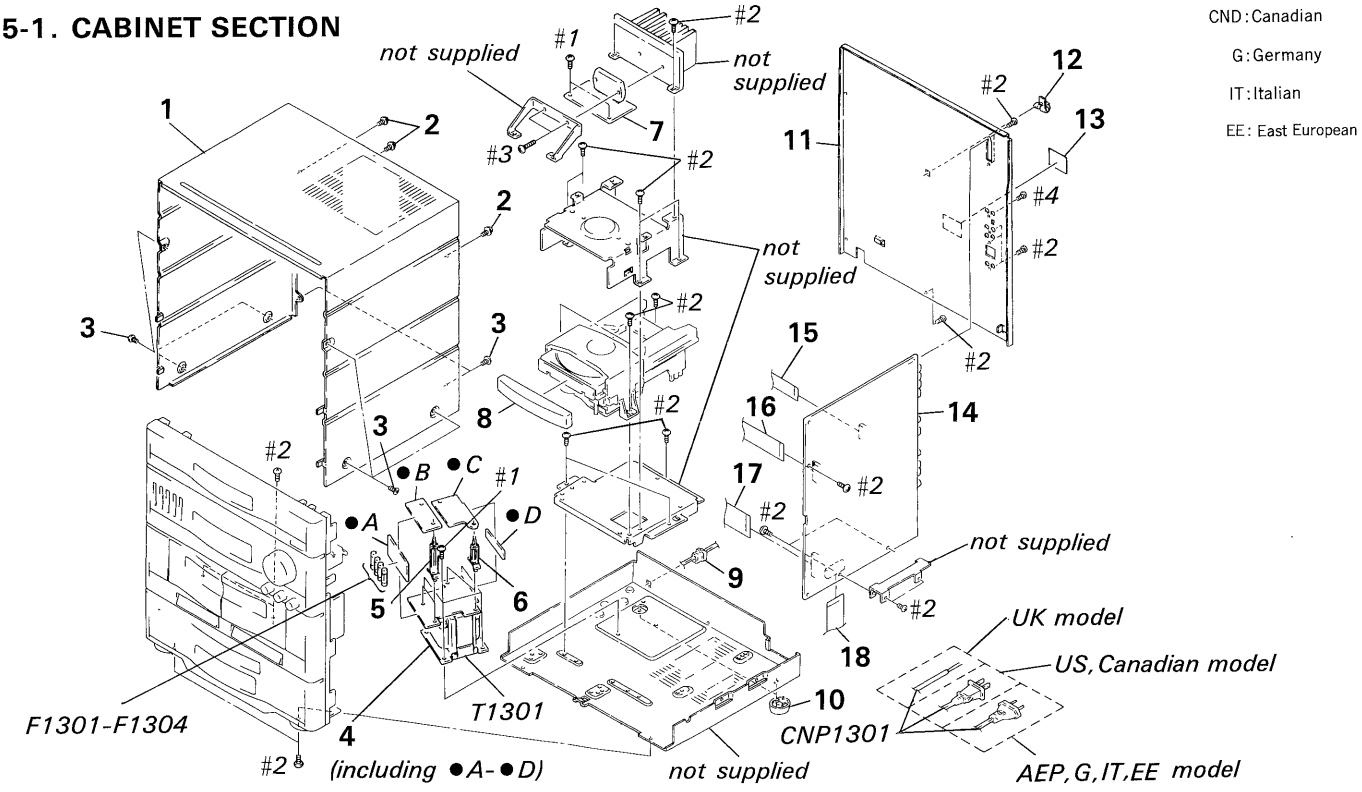
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

CND : Canadian
G : Germany
IT : Italian
EE : East European

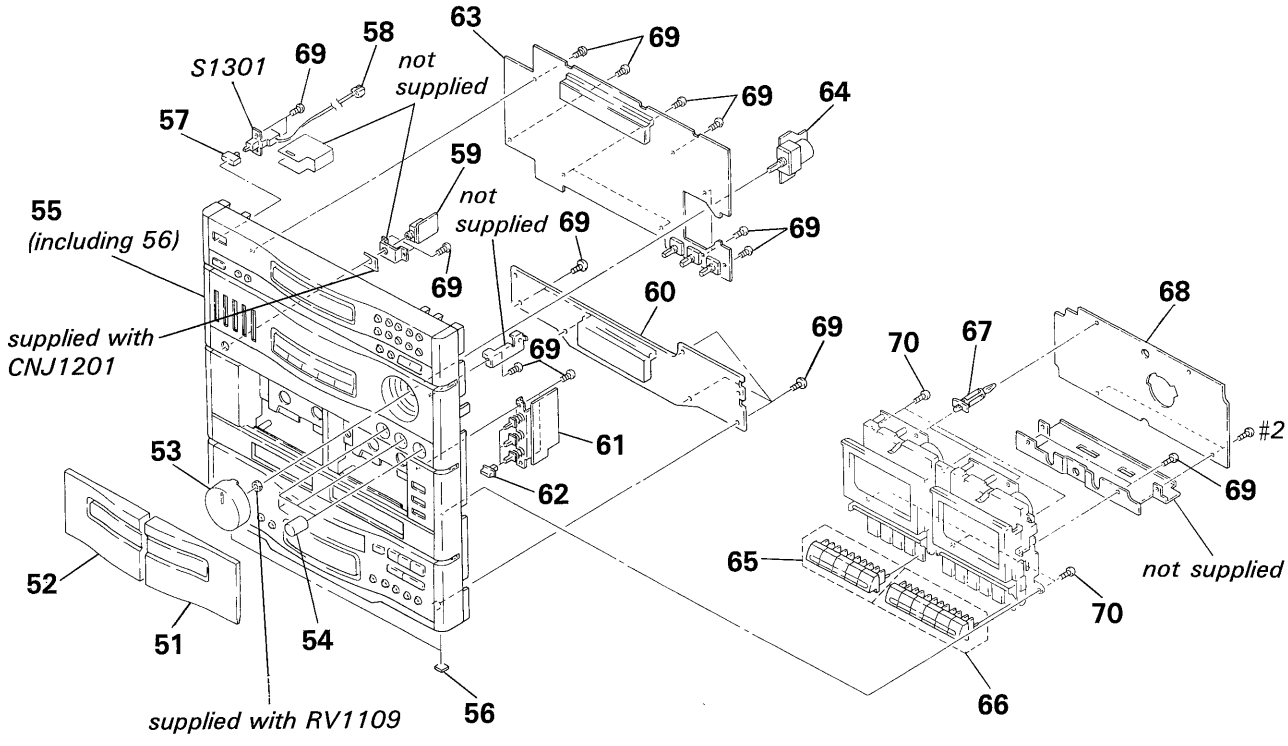
5-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
* 1	4-943-170-32	CASE (CND, AEP, G, EE, UK)	
* 1	4-943-170-62	CASE (US, IT)	
2	4-929-973-01	SCREW (CASE, 3 POINT)	
3	3-363-099-01	SCREW (CASE +3X8 TP2)	
* 4	1-642-220-11	POWER BOARD	
* 5	4-924-098-81	HOLDER, PC BOARD (AEP, G, IT, EE, UK)	
* 5	4-943-687-21	HOLDER, PC BOARD (US, CND)	
* 6	4-924-098-31	HOLDER, PC BOARD (AEP, G, IT, EE, UK)	
* 6	4-943-687-11	HOLDER, PC BOARD (US, CND)	
* 7	A-4347-068-A	POWER AMP BOARD, COMPLETE (AEP, EE, UK)	
* 7	A-4347-366-A	POWER AMP BOARD, COMPLETE (G, IT)	
* 7	A-4347-531-A	POWER AMP BOARD, COMPLETE (US, CND)	
8	4-948-253-01	PANEL, LOADING (CND, AEP, G, EE, UK)	
8	4-948-253-11	PANEL, LOADING (US, IT)	
* 9	3-703-244-00	BUSHING (2104), CORD	
10	X-4941-228-1	FOOT ASSY	
* 11	4-948-285-01	PANEL, BACK (UK)	
* 11	4-948-285-21	PANEL, BACK (US)	
* 11	4-948-285-31	PANEL, BACK (CND)	
* 11	4-948-285-51	PANEL, BACK (AEP)	
* 11	4-948-285-61	PANEL, BACK (IT)	
* 11	4-948-285-81	PANEL, BACK (G)	
* 11	4-948-285-91	PANEL, BACK (EE)	
* 12	4-949-235-01	HOOK	

Ref. No.	Part No.	Description	Remark
* 13	4-941-548-01	LABEL, CLASS 1 (AEP, G, UK, EE, IT)	
* 14	A-4347-065-A	MAIN BOARD, COMPLETE (AEP, UK)	
* 14	A-4347-362-A	MAIN BOARD, COMPLETE (G, IT)	
* 14	A-4347-521-A	MAIN BOARD, COMPLETE (US, CND)	
* 14	A-4347-896-A	MAIN BOARD, COMPLETE (EE)	
15	1-590-459-11	WIRE, FLAT TYPE (11 CORE)	
16	1-590-578-11	WIRE, FLAT TYPE (19 CORE)	
17	1-690-729-11	WIRE, FLAT TYPE (27 CORE)	
18	1-590-901-11	WIRE, FLAT TYPE (22 CORE)	
⚠ CNP13011	1-575-651-61	CORD, POWER (AEP, G, IT, EE)	
⚠ CNP13011	1-575-652-21	CORD, POWER (UK)	
⚠ CNP13011	1-690-609-11	CORD, POWER (US, CND)	
⚠ F1301	1-532-237-00	FUSE, TIME LAG (T3.15A) (AEP, G, IT, EE, UK)	
⚠ F1301	1-576-107-11	FUSE (T3.15A) (US, CND)	
⚠ F1302	1-532-237-00	FUSE, TIME LAG (T3.15A) (AEP, G, IT, EE, UK)	
⚠ F1302	1-576-107-11	FUSE (T3.15A) (US, CND)	
⚠ F1303	1-532-350-00	FUSE, TIME LAG (T4.0A) (AEP, G, IT, EE, UK)	
⚠ F1303	1-576-108-11	FUSE (T4.0A) (US, CND)	
⚠ F1304	1-532-350-00	FUSE, TIME LAG (T4.0A) (AEP, G, IT, EE, UK)	
⚠ F1304	1-576-108-11	FUSE (T4.0A) (US, CND)	
⚠ T1301	1-450-595-11	TRANSFORMER, POWER (AEP, G, IT, EE)	
⚠ T1301	1-450-783-11	TRANSFORMER, POWER (UK)	
⚠ T1301	1-450-817-11	TRANSFORMER, POWER (US)	
⚠ T1301	1-450-818-11	TRANSFORMER, POWER (CND)	

5-2. FRONT PANEL SECTION

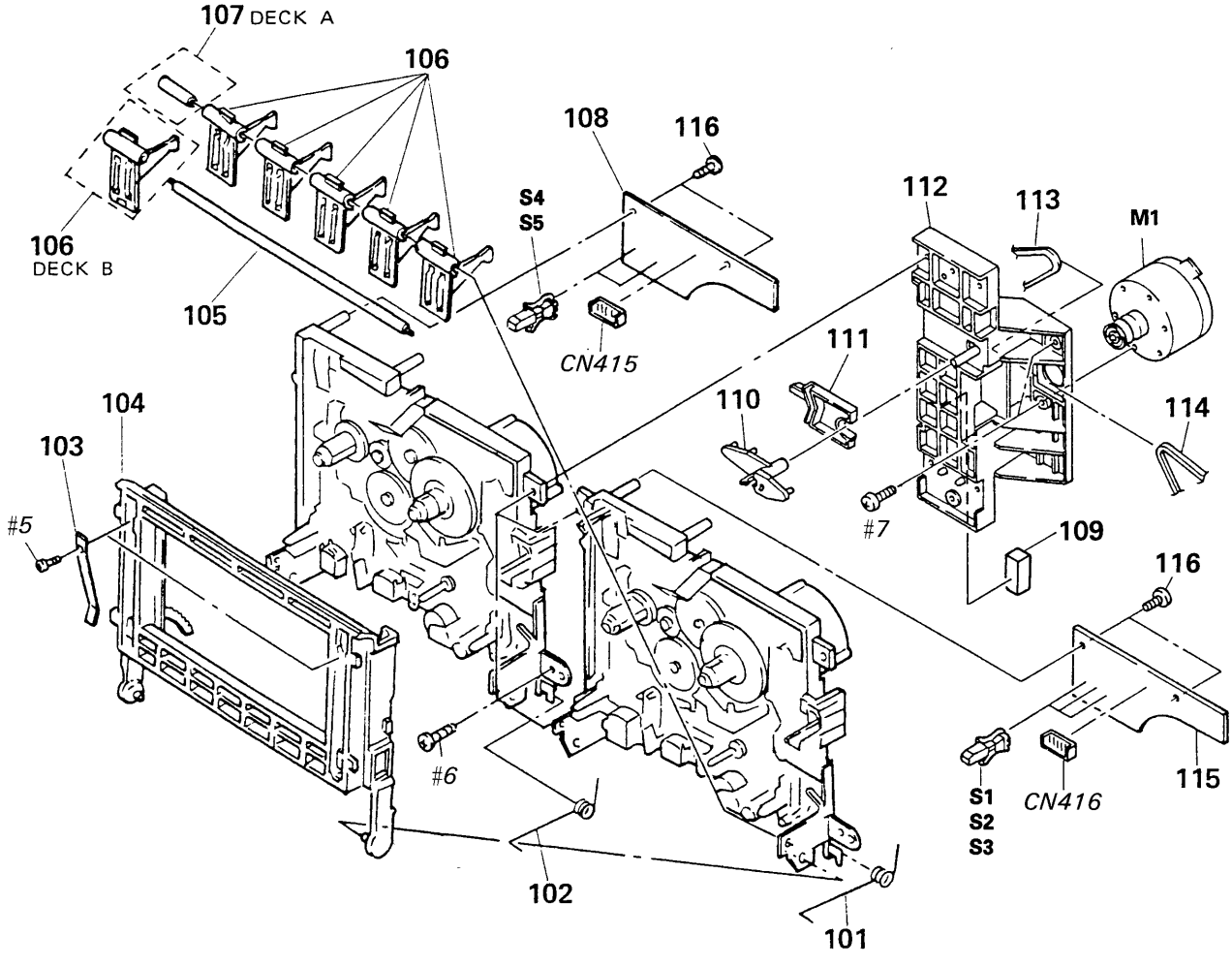


Ref. No.	Part No.	Description	Remark
51	A-4325-347-A	LID (B) ASSY, CASSETTE (CND, AEP, G, EE, UK)	
51	A-4325-423-A	LID (B) ASSY, CASSETTE (US, IT)	
52	A-4325-346-A	LID (A) ASSY, CASSETTE (CND, AEP, G, EE, UK)	
52	A-4325-422-A	LID (A) ASSY, CASSETTE (US, IT)	
53	A-4323-382-A	KNOB (VO) ASSY	
54	4-948-270-01	KNOB (DSB)	
55	A-4325-407-A	PANEL ASSY, FRONT (AEP, G, EE, UK)	
55	A-4325-519-A	PANEL ASSY, FRONT (IT)	
55	A-4325-548-A	PANEL ASSY, FRONT (CND)	
55	A-4325-558-A	PANEL ASSY, FRONT (US)	
56	4-948-236-01	CUSHION (107)	
57	4-930-783-11	BUTTON (PO)	
58	1-690-708-11	CORD (WITH CONNECTOR)	
* 59	1-641-707-11	H.P. BOARD	
* 60	A-4347-069-A	CD PANEL BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
* 61	1-641-709-11	SW BOARD	
62	4-948-257-01	BUTTON (DDT)	
* 63	A-4347-061-A	PANEL BOARD, COMPLETE (AEP, G, UK)	
* 63	A-4347-360-A	PANEL BOARD, COMPLETE (IT)	
* 63	A-4347-519-A	PANEL BOARD, COMPLETE (US, CND)	
* 63	A-4347-894-A	PANEL BOARD, COMPLETE (EE)	
* 64	1-641-706-11	VOL BOARD	
65	4-948-258-01	BUTTON (MD-A)	
66	4-948-259-01	BUTTON (MD-B)	
* 67	4-924-098-31	HOLDER, PC BOARD	
* 68	A-4345-901-A	TC MAIN BOARD, COMPLETE (US, AEP, G, IT, EE, UK)	
* 68	A-4347-525-A	TC MAIN BOARD, COMPLETE (CND)	
69	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
70	4-928-635-21	SCREW, +BV (2.6X10) TAPPING	
⚠ S1301	1-572-267-61	SWITCH, PUSH (AC POWER) (1 KEY)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifé.

5-3. MECHANISM DECK SECTION-1
(TCM-180VW-H7)

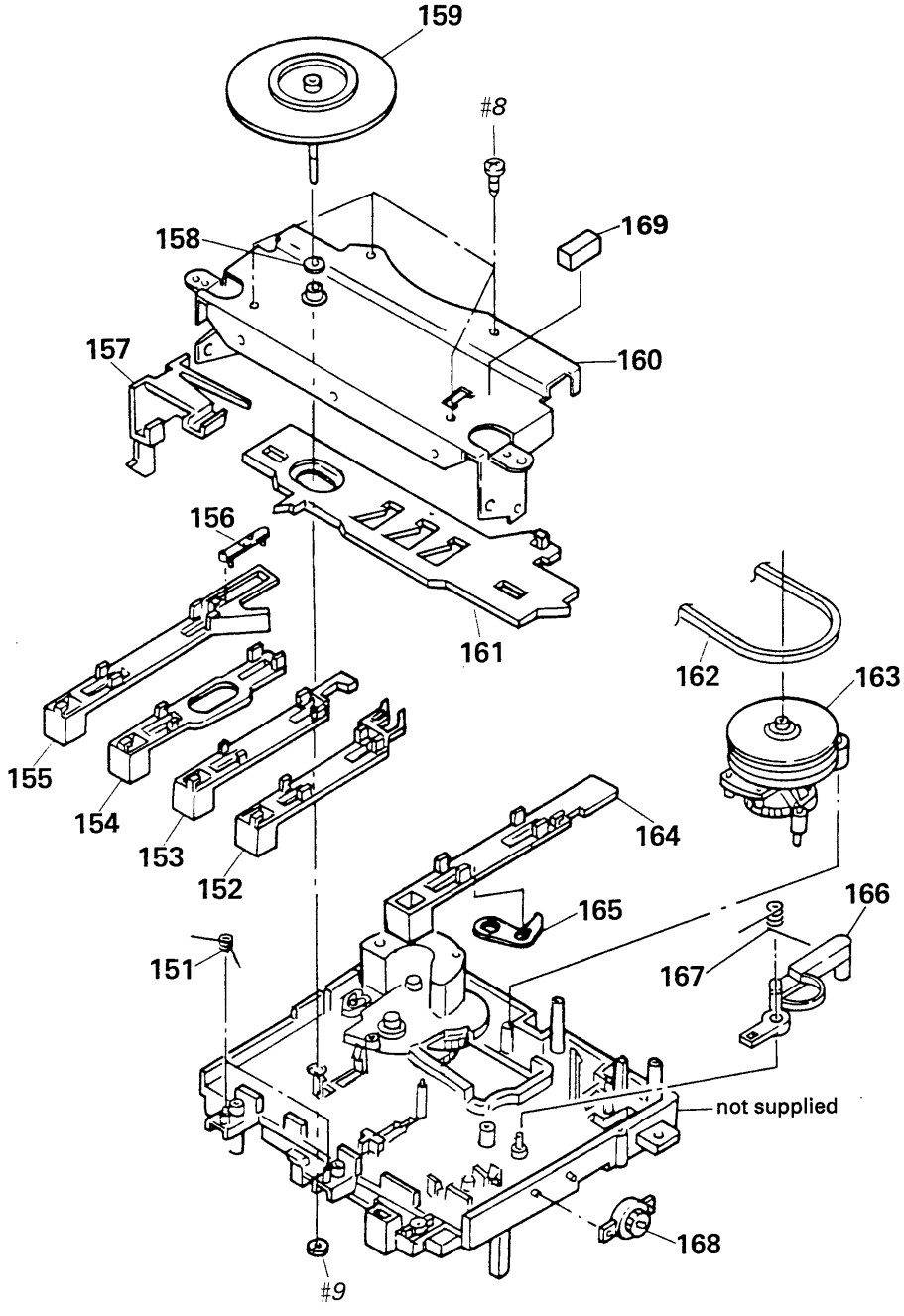


Ref. No.	Part No.	Description	Remark
101	3-358-287-01	SPRING (LOADING A), TORSION	
102	3-358-229-01	SPRING (LOADING), TORSION	
103	3-358-209-01	SPRING (CASSETTE HOLDER), LEAF	
104	3-358-266-02	HOLDER, CASSETTE	
105	3-371-917-01	SHAFT (BUTTON SHAFT 4)	
106	3-369-335-01	LEVER (BUTTON BASE F)	
* 107	3-358-216-01	COLLAR (DECK A)	
* 108	1-640-702-12	LEAF SW (A) BOARD	
* 109	3-358-289-01	SPACER (VIBRATION PROOF MAT)	
110	3-358-203-01	LEVER (TRIGGER)	
111	3-358-202-01	SLIDER (TRIGGER)	
* 112	3-363-930-01	BRACKET (JOINT BASE)	

Ref. No.	Part No.	Description	Remark
113	3-358-230-01	BELT (A1)	
114	3-364-777-01	BELT (WH)	
* 115	1-640-703-12	LEAF SW (B) BOARD	
116	4-928-635-01	SCREW +BV (2.6X8) TAPPING	
* CN415	1-568-942-11	PIN, CONNECTOR 4P	
* CN416	1-568-943-11	PIN, CONNECTOR 5P	
M1	X-3362-377-1	MOTOR (WH) ASSY	
S1	1-571-736-11	SWITCH, LEAF (MOTOR)	
S2	1-571-736-11	SWITCH, LEAF (FWD)	
S3	1-571-736-11	SWITCH, LEAF (REC)	
S4	1-571-736-11	SWITCH, LEAF (MOTOR)	
S5	1-571-736-11	SWITCH, LEAF (FWD)	

5-4. MECHANISM DECK SECTION-2

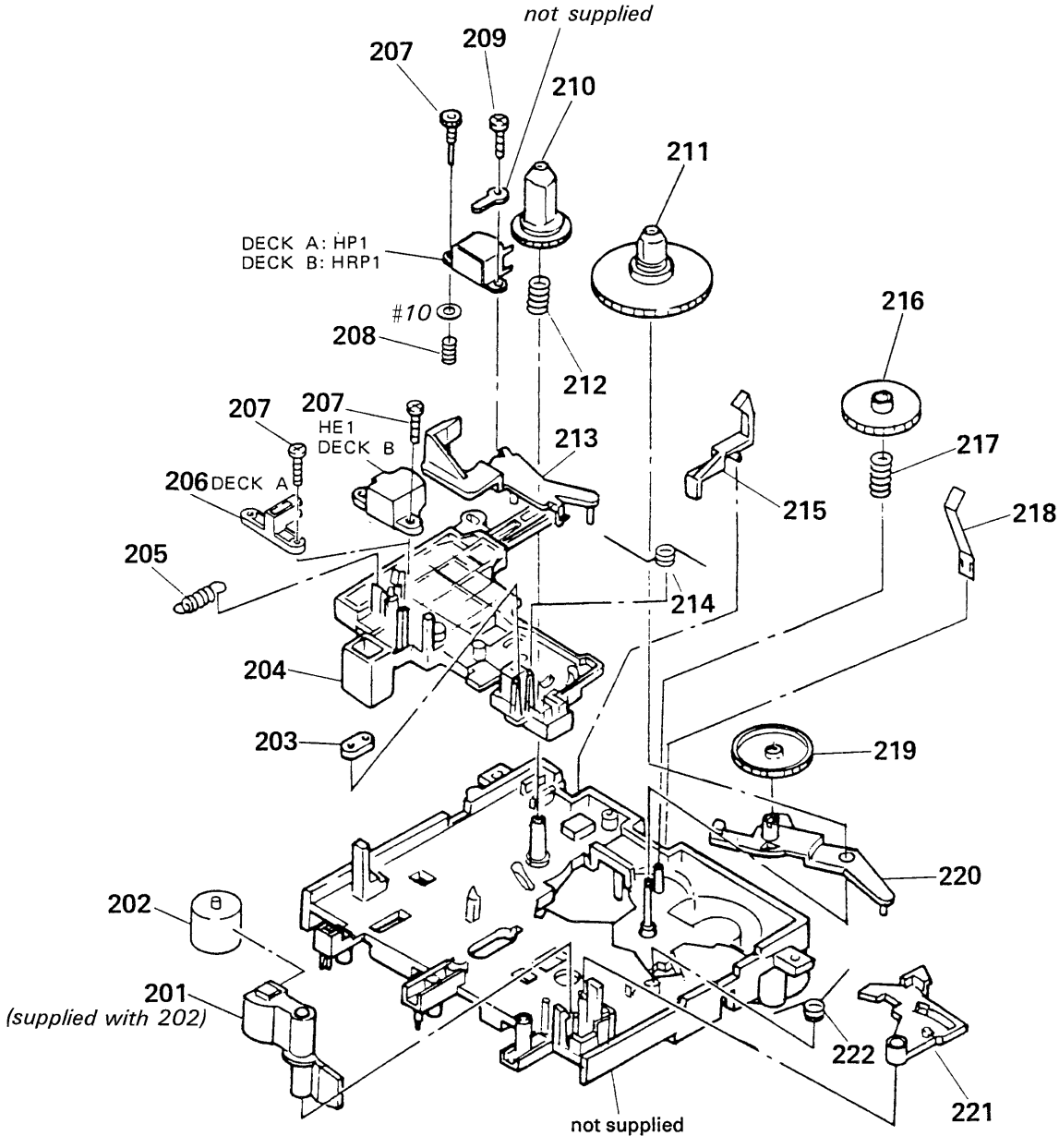
(TCM-180VW-H7)



Ref. No.	Part No.	Description	Remark
151	3-358-232-01	SPRING (S-P F-R), TORSION	
152	3-358-258-01	SLIDER (REW)	
153	3-358-257-01	SLIDER (FF)	
154	3-358-256-01	SLIDER (STOP/EJECT)	
155	3-358-260-01	SLIDER (PAUSE)	
* 156	3-358-226-01	LEVER (PAUSE LEVER)	
* 157	3-358-261-02	SLIDER (HOLDER LOCK)	
158	3-701-437-01	WASHER	
159	X-3358-205-1	FLYWHEEL (A) ASSY (DECK A)	
159	X-3358-206-1	FLYWHEEL (B) ASSY (DECK B)	
* 160	X-3358-208-1	BRACKET (B) ASSY	

Ref. No.	Part No.	Description	Remark
* 161	3-358-249-01	SLIDER (LOCK PLATE)	
162	3-358-230-01	BELT (A1)	
163	X-3358-202-1	LEVER (FR ARM) ASSY	
164	3-358-259-01	SLIDER (REC) (DECK B)	
* 165	3-358-204-01	LEVER (REC SAFETY) (DECK B)	
166	3-358-286-01	LEVER (MOTOR LEVER)	
167	3-358-214-01	SPRING (LOCK), TORSION (DECK A)	
167	3-358-233-01	SPRING (REC-LOCK), TORSION (DECK B)	
168	3-319-224-41	DAMPER, SMALL	
* 169	3-358-289-01	SPACER (VIBRATION PROOF MAT)	

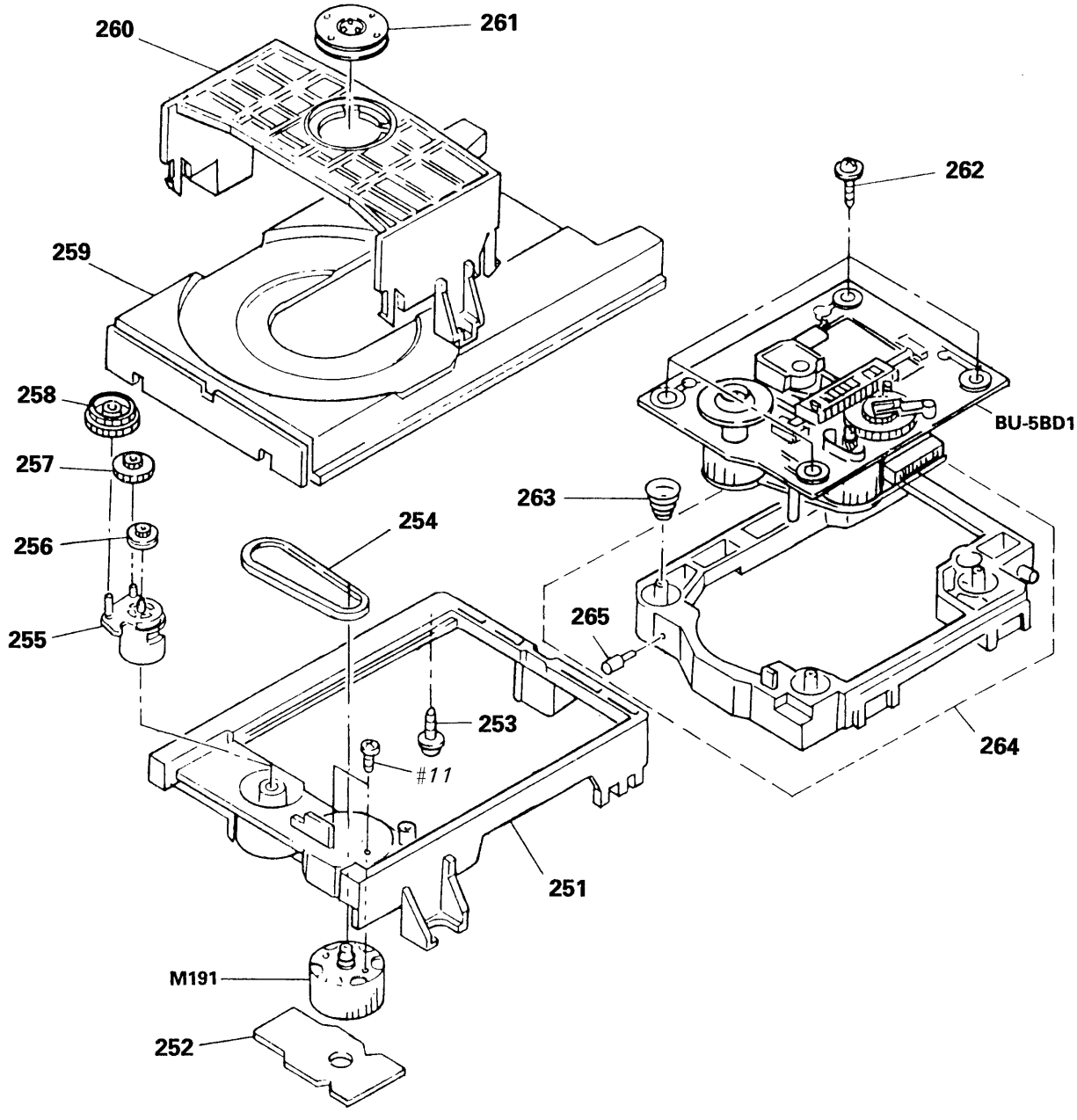
5-5. MECHANISM DECK SECTION-3
(TCM-180VW-H7)



Ref. No.	Part No.	Description	Remark
201	X-3358-204-1	LEVER (PINCH LEVER) ASSY	
202	3-578-143-11	PINCH ROLLER	
* 203	3-358-215-01	BUSHING (WIRE KIT RETAINER)	
204	3-358-265-01	SLIDER (HEAD PC BOARD A)	
205	3-358-217-01	SPRING, TENSION	
* 206	3-363-931-01	GUIDE, TAPE (DECK A)	
207	3-358-288-11	SCREW (T), AZIMUTH	
208	3-358-234-01	SPRING (AZIMUTH), COMPRESSION	
209	3-358-288-01	SCREW (T), AZIMUTH	
210	3-358-248-01	GEAR (SUPPLY REEL)	
211	X-3358-203-1	TABLE (T) ASSY, REEL	
212	3-358-208-01	SPRING (SUPPLY), COMPRESSION	
* 213	3-358-251-01	LEVER (TENSION DETECTION ARM)	

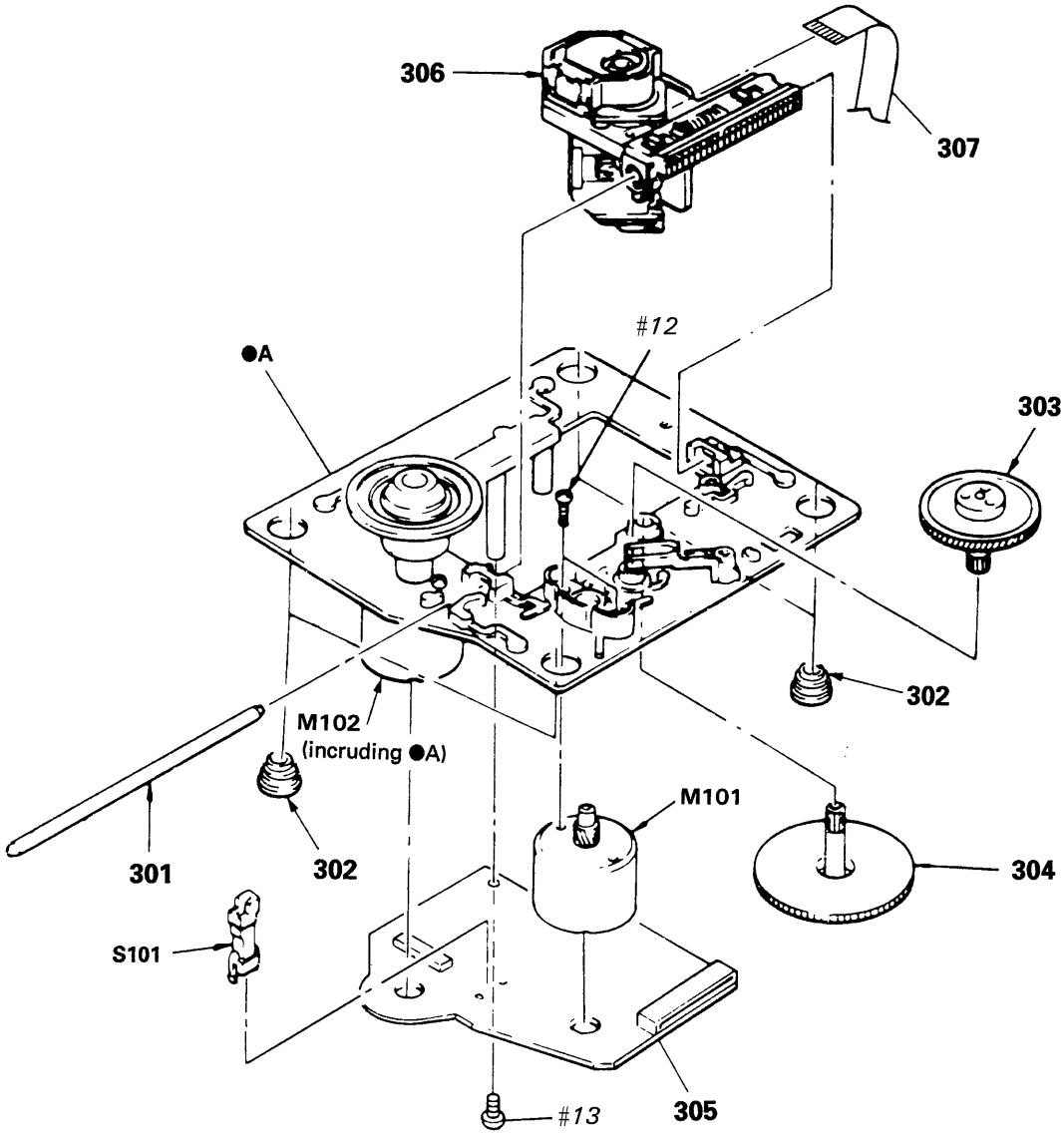
Ref. No.	Part No.	Description	Remark
214	3-358-228-01	SPRING, TORSION	
* 215	3-358-255-01	LEVER (GB LEVER)	
* 216	3-358-224-01	GEAR (FF GEAR)	
217	3-358-207-01	SPRING (FF GEAR), COMPRESSION	
218	3-358-227-01	SPRING, LEAF	
* 219	3-358-284-01	GEAR (TU GEAR)	
* 220	3-358-252-01	LEVER (TU ARM)	
* 221	3-358-253-01	LEVER (SHUT-OFF LEVER)	
222	3-358-243-01	SPRING (TU-SHUT), TORSION	
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE) (DECK B)	
HP1	1-543-319-11	HEAD, MAGNETIC (PB) (DECK A)	
HRP1	1-543-319-11	HEAD, MAGNETIC (REC/PB) (DECK B)	

5-6. CD MECHANISM SECTION



Ref. No.	Part No.	Description	Remark
251	4-933-111-01	CHASSIS (MD)	
252	* 1-632-202-11	LOADING BOARD	
253	* 4-917-583-21	BRACKET, YOKE	
254	4-927-649-01	BELT	
255	4-933-109-01	CAM	
256	4-927-651-01	PULLEY (S)	
257	4-927-628-01	GEAR (C)	
258	4-933-107-01	GEAR (PL)	
259	4-949-336-01	TABLE, DISK	
260	4-933-110-01	HOLDER (MG)	
261	* 1-452-538-11	MAGNET	
262	4-933-134-01	SCREW (+PTPWH M2.6X6)	
263	4-917-541-01	SPRING (B)	
264	4-933-129-04	HOLDER (BU)	
265	4-933-108-01	SHAFT (CAM)	
M191	A-4604-363-A	MOTOR (L) ASSY	

5-7. OPTICAL PICK-UP BLOCK SECTION



Ref. No.	Part No.	Description	Remark
301	4-917-565-01	SHAFT, SLED	
302	4-933-126-01	INSULATOR (A)	
303	4-917-567-01	GEAR (M)	
304	4-917-564-01	GEAR (P), FLATNESS	
305	A-4617-161-A	BD BOARD, COMPLETE	
⚠ 306	8-848-144-11	DEVICE, OPTICAL KSS-240A	
307	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-504-1	MOTOR ASSY (SLED)	
M102	X-4917-523-3	MOTOR ASSY (SPINDLE)	
S101	1-572-085-11	SWITCH, LEAF	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifé.

SECTION 6
ELECTRICAL PARTS LIST

BD

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- RESISTORS
  All resistors are in ohms
  METAL:Metal-film resistor
  METAL OXIDE:Metal Oxide-film resistor
  F:nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indication parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

CND:Canadian
G:Germany
IT:Italian
EE: East European

Ref. No.	Part No.	Description			Remark
	A-4617-161-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-038-00	CERAMIC	0.1uF		25V
C102	1-163-989-11	CERAMIC	0.033uF	10%	25V
C103	1-126-163-11	ELECT	4.7uF	20%	50V
C104	1-163-038-00	CERAMIC	0.1uF		25V
C105	1-126-154-11	ELECT	47uF	20%	6.3V
C106	1-126-154-11	ELECT	47uF	20%	6.3V
C107	1-126-154-11	ELECT	47uF	20%	6.3V
C108	1-163-038-00	CERAMIC	0.1uF		25V
C109	1-163-038-00	CERAMIC	0.1uF		25V
C110	1-163-989-11	CERAMIC	0.033uF	10%	25V
C111	1-131-367-00	TANTALUM	22uF	20%	20V
C112	1-164-232-11	CERAMIC	0.01uF	10%	50V
C113	1-164-232-11	CERAMIC	0.01uF	10%	50V
C114	1-164-161-11	CERAMIC	0.0022uF	10%	100V
C115	1-164-161-11	CERAMIC	0.0022uF	10%	100V
C117	1-163-038-00	CERAMIC	0.1uF		25V
C118	1-163-038-00	CERAMIC	0.1uF		25V
C119	1-164-161-11	CERAMIC	0.0022uF	10%	100V
C120	1-163-989-11	CERAMIC	0.033uF	10%	25V
C151	1-163-019-00	CERAMIC	0.0068uF	10%	50V
C152	1-163-038-00	CERAMIC	0.1uF		25V
C153	1-163-006-11	CERAMIC	560pF	10%	50V
C154	1-164-161-11	CERAMIC	0.0022uF	10%	100V
C155	1-163-023-00	CERAMIC	0.015uF	10%	50V
C171	1-163-038-00	CERAMIC	0.1uF		25V
C172	1-163-038-00	CERAMIC	0.1uF		25V
C173	1-163-038-00	CERAMIC	0.1uF		25V
C174	1-163-038-00	CERAMIC	0.1uF		25V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
CN103	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< DIODE >			
D101	8-719-021-25	DIODE UZM4.7X			
		< IC >			
IC101	8-752-053-73	IC CXA1372AQ			
IC102	8-759-822-36	IC LA6532M			
IC103	8-759-633-65	IC M54641L			
		< JACK >			
J101	1-216-295-00	METAL GLAZE	0	5%	1/10W
J102	1-216-295-00	METAL GLAZE	0	5%	1/10W
		< TRANSISTOR >			
Q101	8-729-901-01	TRANSISTOR DTC144EK			
		< RESISTOR >			
R101	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R102	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R103	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R104	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R105	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R106	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R107	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R108	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R109	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R110	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R111	1-216-049-00	METAL GLAZE	1K	5%	1/10W

BD CD PANEL H.P.

Ref. No.	Part No.	Description			Remark
R112	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R113	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R114	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R152	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R153	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R154	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R155	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R156	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R157	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R158	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R159	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R160	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R171	1-216-001-00	METAL GLAZE	10	5%	1/10W
R172	1-216-001-00	METAL GLAZE	10	5%	1/10W
R173	1-216-001-00	METAL GLAZE	10	5%	1/10W
R174	1-216-001-00	METAL GLAZE	10	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-238-016-11	RES, ADJ, CARBON 10K			
RV102	1-238-016-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF			
**********					
*	A-4347-069-A	CD PANEL BOARD, COMPLETE			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-942-301-01	HOLDER, FL TUBE			
		< CAPACITOR >			
C201	1-164-159-11	CERAMIC	0.1uF		50V
C202	1-124-261-00	ELECT	10uF	20%	50V
C203	1-124-261-00	ELECT	10uF	20%	50V
C204	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN201	1-568-869-11	SOCKET, CONNECTOR 27P			
		< FILTER >			
FL201	1-519-611-21	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC201	8-752-832-30	IC CXP50112-241Q			
		< RESISTOR >			
R202	1-249-425-11	CARBON	4.7K	5%	1/4W
R203	1-249-425-11	CARBON	4.7K	5%	1/4W
R204	1-249-432-11	CARBON	18K	5%	1/4W
R205	1-249-432-11	CARBON	18K	5%	1/4W
R215	1-249-422-11	CARBON	2.7K	5%	1/4W
R216	1-249-432-11	CARBON	18K	5%	1/4W
R217	1-249-427-11	CARBON	6.8K	5%	1/4W
R218	1-249-424-11	CARBON	3.9K	5%	1/4W
R219	1-249-422-11	CARBON	2.7K	5%	1/4W
R220	1-249-432-11	CARBON	18K	5%	1/4W
R221	1-249-427-11	CARBON	6.8K	5%	1/4W
R222	1-249-424-11	CARBON	3.9K	5%	1/4W
R223	1-249-422-11	CARBON	2.7K	5%	1/4W
R224	1-249-432-11	CARBON	18K	5%	1/4W
R225	1-249-427-11	CARBON	6.8K	5%	1/4W
R226	1-249-424-11	CARBON	3.9K	5%	1/4W
R227	1-249-422-11	CARBON	2.7K	5%	1/4W
R230	1-249-429-11	CARBON	10K	5%	1/4W
R231	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-429-11	CARBON	10K	5%	1/4W
R233	1-249-429-11	CARBON	10K	5%	1/4W
		< SWITCH >			
S201	1-554-303-21	SWITCH, TACTILE (CONTINUE)			
S202	1-554-303-21	SWITCH, TACTILE (SHUFFLE)			
S203	1-554-303-21	SWITCH, TACTILE (PROGRAM)			
S204	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)			
S205	1-554-303-21	SWITCH, TACTILE (EDIT)			
S206	1-554-303-21	SWITCH, TACTILE (▶▶)			
S207	1-554-303-21	SWITCH, TACTILE (◀◀)			
S208	1-554-303-21	SWITCH, TACTILE (■)			
S209	1-554-303-21	SWITCH, TACTILE (❚❚)			
S210	1-554-303-21	SWITCH, TACTILE (▶)			
S211	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE)			
S212	1-554-303-21	SWITCH, TACTILE (CLEAR)			
S213	1-554-303-21	SWITCH, TACTILE (CHECK)			
S214	1-554-303-21	SWITCH, TACTILE (FADE)			
S215	1-554-303-21	SWITCH, TACTILE (REPEAT)			
S216	1-554-303-21	SWITCH, TACTILE (TIME)			
		< CRYSTAL >			
X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			
**********					
*	1-641-707-11	H.P. BOARD			
		**********			
		< CAPACITOR >			
C1237	1-162-282-31	CERAMIC	100PF	10%	50V (G, IT)

H.P. | LEAF SW(A) | LEAF SW(B) | LOADING | MAIN

Ref. No.	Part No.	Description	Remark
C1238	1-162-282-31	CERAMIC 100PF 10% 50V (G, IT)	
		< CONNECTOR >	
CNJ12011-691-003-21		JACK, LARGE TYPE	
**********			
	1-640-702-12	LEAF SW (A) BOARD	
		**********	
		< CAPACITOR >	
C544	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
* CN415	1-568-942-11	PIN, CONNECTOR 4P	
		< SWITCH >	
S4	1-571-736-11	SWITCH, LEAF (MOTOR)	
S5	1-571-736-11	SWITCH, LEAF (FWD)	
**********			
	1-640-703-12	LEAF SW (B) BOARD	
		**********	
		< CAPACITOR >	
C545	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
* CN416	1-568-943-11	PIN, CONNECTOR 5P	
		< SWITCH >	
S1	1-571-736-11	SWITCH, LEAF (MOTOR)	
S2	1-571-736-11	SWITCH, LEAF (FWD)	
S3	1-571-736-11	SWITCH, LEAF (REC)	
**********			
*	1-632-202-11	LOADING BOARD	
		**********	
		< CONNECTOR >	
* CN301	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
		< SWITCH >	
S271	1-572-086-11	SWITCH, LEAF	
S272	1-572-086-11	SWITCH, LEAF	
**********			
*	A-4347-065-A	MAIN BOARD, COMPLETE (AEP, UK)	
*	A-4347-362-A	MAIN BOARD, COMPLETE (G, IT)	
*	A-4347-521-A	MAIN BOARD, COMPLETE (US, CND)	
*	A-4347-896-A	MAIN BOARD, COMPLETE (EE)	
		**********	
*	4-942-204-01	PLATE, GROUND	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
		< CAPACITOR >	
C301	1-161-379-00	CERAMIC 0.01uF 20% 25V (G, IT)	
C302	1-124-477-11	ELECT 47uF 20% 25V	
C303	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C305	1-161-379-00	CERAMIC 0.01uF 20% 25V (G, IT)	
C306	1-161-379-00	CERAMIC 0.01uF 20% 25V (G, IT)	
C307	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C308	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C309	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C310	1-124-477-11	ELECT 47uF 20% 25V	
C311	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C312	1-101-006-00	CERAMIC 0.047uF 50V	
C313	1-123-382-00	ELECT 3.3uF 20% 100V	
C314	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C315	1-161-329-00	CERAMIC 0.0068uF 30% 16V	
C316	1-162-282-31	CERAMIC 100PF 10% 50V	
C317	1-162-292-31	CERAMIC 680PF 10% 50V (G, IT)	
C318	1-124-903-11	ELECT 1uF 20% 50V	
C320	1-124-903-11	ELECT 1uF 20% 50V	
C321	1-124-902-00	ELECT 0.47uF 20% 50V	
C322	1-124-463-00	ELECT 0.1uF 20% 50V	
C323	1-161-379-00	CERAMIC 0.01uF 20% 25V (US, CND)	
C323	1-161-329-00	CERAMIC 0.0068uF 30% 16V (AEP, G, IT, EE, UK)	
C324	1-161-379-00	CERAMIC 0.01uF 20% 25V (US, CND)	
C324	1-161-329-00	CERAMIC 0.0068uF 30% 16V (AEP, G, IT, EE, UK)	
C325	1-124-477-11	ELECT 47uF 20% 25V	
C326	1-124-907-11	ELECT 10uF 20% 50V	
C327	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C328	1-124-463-00	ELECT 0.1uF 20% 50V	
C329	1-124-927-11	ELECT 4.7uF 20% 100V	
C330	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C331	1-126-176-11	ELECT 220uF 20% 10V	
C332	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C335	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C336	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C339	1-162-210-31	CERAMIC 30PF 5% 50V (AEP, G, IT, EE, UK)	
C341	1-123-382-00	ELECT 3.3uF 20% 100V	
C342	1-123-382-00	ELECT 3.3uF 20% 100V	
C343	1-123-382-00	ELECT 3.3uF 20% 100V	
C344	1-123-382-00	ELECT 3.3uF 20% 100V	
C345	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
C346	1-161-375-00	CERAMIC 0.0022uF 20% 50V	

MAIN

Ref. No.	Part No.	Description	Remark
C351	1-161-494-00	CERAMIC 0.022uF 25V	(AEP, G, IT, EE, UK)
C352	1-102-120-00	CERAMIC 0.0018uF 10% 50V	(AEP, G, IT, EE, UK)
C353	1-161-374-11	CERAMIC 0.0015uF 20% 50V	(AEP, G, IT, EE, UK)
C354	1-161-494-00	CERAMIC 0.022uF 25V	(AEP, G, IT, EE, UK)
C361	1-164-098-11	CERAMIC 0.047uF	12V
C362	1-161-494-00	CERAMIC 0.022uF	25V
C363	1-164-159-11	CERAMIC 0.1uF 50V	(AEP, G, IT, EE, UK)
C364	1-161-494-00	CERAMIC 0.022uF 25V	(AEP, G, IT, EE, UK)
C371	1-162-199-31	CERAMIC 10PF 5% 50V	(US, CND)
C371	1-162-196-31	CERAMIC 5.6PF 10% 50V	(AEP, G, IT, EE, UK)
C401	1-124-907-11	ELECT 10uF 20%	50V
C402	1-126-176-11	ELECT 220uF 20%	10V
C403	1-124-907-11	ELECT 10uF 20%	50V
C404	1-124-903-11	ELECT 1uF 20%	50V
C405	1-124-443-00	ELECT 100uF 20%	10V
C406	1-124-472-11	ELECT 470uF 20%	10V
C407	1-164-159-11	CERAMIC 0.1uF	50V
C408	1-164-159-11	CERAMIC 0.1uF	50V
C410	1-124-902-00	ELECT 0.47uF 20%	50V
C411	1-136-153-00	FILM 0.01uF 5%	50V
C412	1-124-443-00	ELECT 100uF 20%	10V
C413	1-161-374-11	CERAMIC 0.0015uF 20%	50V
C414	1-136-161-00	FILM 0.047uF 5%	50V
C415	1-124-443-00	ELECT 100uF 20%	10V
C416	1-164-159-11	CERAMIC 0.1uF	50V
C418	1-124-443-00	ELECT 100uF 20%	10V
C419	1-164-159-11	CERAMIC 0.1uF	50V
C420	1-164-159-11	CERAMIC 0.1uF	50V
C430	1-162-207-31	CERAMIC 22PF 5%	50V
C431	1-162-207-31	CERAMIC 22PF 5%	50V
C432	1-124-443-00	ELECT 100uF 20%	10V
C433	1-124-443-00	ELECT 100uF 20%	10V
C434	1-164-159-11	CERAMIC 0.1uF	50V
C435	1-164-159-11	CERAMIC 0.1uF	50V
C436	1-124-443-00	ELECT 100uF 20%	10V
C439	1-164-159-11	CERAMIC 0.1uF	50V
C447	1-164-159-11	CERAMIC 0.1uF	50V
C448	1-164-159-11	CERAMIC 0.1uF	50V
C456	1-124-903-11	ELECT 1uF 20%	50V
C457	1-124-903-11	ELECT 1uF 20%	50V
C458	1-130-475-00	MYLAR 0.0022uF 5%	50V
C459	1-130-475-00	MYLAR 0.0022uF 5%	50V
C460	1-162-286-31	CERAMIC 220PF 10%	50V
C461	1-162-286-31	CERAMIC 220PF 10%	50V
C462	1-124-907-11	ELECT 10uF 20%	50V
C463	1-124-907-11	ELECT 10uF 20%	50V
C464	1-162-288-31	CERAMIC 330PF 10%	50V
C465	1-162-288-31	CERAMIC 330PF 10%	50V
C467	1-162-294-31	CERAMIC 0.001uF 10%	50V

Ref. No.	Part No.	Description	Remark
C501	1-102-961-00	CERAMIC 27PF 5%	50V
C502	1-102-961-00	CERAMIC 27PF 5%	50V
C503	1-124-477-11	ELECT 47uF 20%	25V
C504	1-161-379-00	CERAMIC 0.01uF 20%	25V
C505	1-161-379-00	CERAMIC 0.01uF 20%	25V
C506	1-161-379-00	CERAMIC 0.01uF 20%	25V
C507	1-161-379-00	CERAMIC 0.01uF 20%	25V
C521	1-124-925-11	ELECT 2.2uF 20%	100V
C522	1-124-463-00	ELECT 0.1uF 20%	50V
C523	1-161-379-00	CERAMIC 0.01uF 20%	25V
C524	1-161-379-00	CERAMIC 0.01uF 20%	25V
C525	1-124-477-11	ELECT 47uF 20% 25V	(US, CND, AEP, G, IT, UK)
C525	1-126-101-11	ELECT 100uF 20%	16V (EE)
C530	1-161-379-00	CERAMIC 0.01uF 20% 25V	(G, IT)
C531	1-136-173-00	FILM 0.47uF 5% 50V	(AEP, G, IT, EE, UK)
C532	1-161-494-00	CERAMIC 0.022uF 25V	(AEP, G, IT, EE, UK)
C533	1-124-463-00	ELECT 0.1uF 20% 50V	(AEP, G, IT, EE, UK)
C1001	1-124-925-11	ELECT 2.2uF 20%	100V
C1002	1-162-282-31	CERAMIC 100PF 10%	50V
C1003	1-162-282-31	CERAMIC 100PF 10%	50V
C1004	1-124-477-11	ELECT 47uF 20%	25V
C1005	1-161-377-00	CERAMIC 0.0047uF 20%	16V
C1006	1-161-374-11	CERAMIC 0.0015uF 20%	50V
C1007	1-124-464-11	ELECT 0.22uF 20%	50V
C1008	1-124-477-11	ELECT 47uF 20%	25V
C1010	1-124-477-11	ELECT 47uF 20%	25V
C1012	1-124-925-11	ELECT 2.2uF 20%	100V
C1013	1-162-290-31	CERAMIC 470PF 10%	50V
C1014	1-161-494-00	CERAMIC 0.022uF	25V
C1025	1-162-286-31	CERAMIC 220PF 10%	50V
C1051	1-124-925-11	ELECT 2.2uF 20%	100V
C1052	1-162-282-31	CERAMIC 100PF 10%	50V
C1053	1-162-282-31	CERAMIC 100PF 10%	50V
C1054	1-124-477-11	ELECT 47uF 20%	25V
C1055	1-161-377-00	CERAMIC 0.0047uF 20%	16V
C1056	1-161-374-11	CERAMIC 0.0015uF 20%	50V
C1057	1-124-464-11	ELECT 0.22uF 20%	50V
C1058	1-124-477-11	ELECT 47uF 20%	25V
C1060	1-124-477-11	ELECT 47uF 20%	25V
C1062	1-124-925-11	ELECT 2.2uF 20%	100V
C1063	1-162-290-31	CERAMIC 470PF 10%	50V
C1064	1-161-494-00	CERAMIC 0.022uF	25V
C1075	1-162-286-31	CERAMIC 220PF 10%	50V
C1212	1-126-233-11	ELECT 22uF 20%	50V
C1213	1-126-233-11	ELECT 22uF 20%	50V
C1221	1-126-101-11	ELECT 100uF 20%	16V
C1222	1-126-176-11	ELECT 220uF 20%	10V
C1223	1-126-176-11	ELECT 220uF 20%	10V
C1245	1-101-006-00	CERAMIC 0.047uF	50V (G, IT)

Ref. No.	Part No.	Description			Remark
C1246	1-101-006-00	CERAMIC	0.047uF	50V	(G, IT)
C1247	1-101-006-00	CERAMIC	0.047uF	50V	(G, IT)
C1248	1-101-006-00	CERAMIC	0.047uF	50V	(G, IT)
C1249	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1250	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1262	1-126-233-11	ELECT	22uF	20% 50V	
C1263	1-126-233-11	ELECT	22uF	20% 50V	
C1294	1-161-494-00	CERAMIC	0.022uF	25V	(G, IT)
C1302	1-102-394-11	CERAMIC	0.01uF	250V	
C1304	1-126-413-11	ELECT	3300uF	20% 35V	
C1305	1-126-413-11	ELECT	3300uF	20% 35V	
C1306	1-124-477-11	ELECT	47uF	20% 25V	
C1308	1-126-101-11	ELECT	100uF	20% 16V	
C1309	1-126-101-11	ELECT	100uF	20% 16V	
C1312	1-124-563-11	ELECT	2200uF	20% 25V	
C1313	1-126-946-11	ELECT	6800uF	20% 25V	
C1319	1-124-463-00	ELECT	0.1uF	20% 50V	
C1320	1-124-907-11	ELECT	10uF	20% 50V	
C1321	1-161-379-00	CERAMIC	0.01uF	20% 25V	
C1322	1-161-379-00	CERAMIC	0.01uF	20% 25V	
C1324	1-124-907-11	ELECT	10uF	20% 50V	
C1326	1-124-907-11	ELECT	10uF	20% 50V	
C1330	1-126-101-11	ELECT	100uF	20% 16V	
C1331	1-102-394-11	CERAMIC	0.01uF	250V	
C1335	1-124-907-11	ELECT	10uF 20% 50V		(AEP, G, IT, EE, UK)
C1336	1-126-101-11	ELECT	100uF 20% 16V		(AEP, G, IT, EE, UK)
C1341	1-124-907-11	ELECT	10uF	20% 50V	
C1346	1-124-925-11	ELECT	2.2uF	20% 100V	
C1351	1-124-122-11	ELECT	100uF	20% 50V	
C1352	1-126-105-11	ELECT	1000uF	20% 35V	
C1353	1-136-165-00	FILM	0.1uF	5% 50V	
C1354	1-136-165-00	FILM	0.1uF	5% 50V	
C1361	1-124-122-11	ELECT	100uF	20% 50V	
C1381	1-136-165-91	FILM	0.1uF	5% 50V	

< FILTER >

CF301	1-577-070-81	FILTER, CERAMIC	(US, CND, AEP, EE, UK)
CF301	1-567-389-11	FILTER, CERAMIC	(G, IT)
CF303	1-577-070-81	FILTER, CERAMIC	(US, CND, AEP, EE, UK)
CF303	1-567-389-11	FILTER, CERAMIC	(G, IT)
CF304	1-577-075-11	OSCILLATOR, CERAMIC	

< CONNECTOR >

* CN402	1-568-822-11	SOCKET, CONNECTOR	22P
* CN403	1-568-842-11	SOCKET, CONNECTOR	27P
* CN405	1-560-064-00	PIN, CONNECTOR	6P
* CN406	1-560-060-00	PIN, CONNECTOR	2P
* CN501	1-568-830-11	SOCKET, CONNECTOR	11P
* CN1001	1-580-691-11	JACK, PIN	2P
* CN1002	1-580-691-11	JACK, PIN	2P
* CN1201	1-537-327-11	TERMINAL BOARD	
CN1202	1-569-130-11	JACK, PIN 2P	(AEP, G, IT, EE, UK)
* CN1203	1-564-506-11	PLUG, CONNECTOR 3P	
* CN1204	1-564-510-11	PLUG, CONNECTOR 7P	
* CN1205	1-568-934-11	PIN, CONNECTOR 7P	
CN1206	1-568-802-11	SOCKET, CONNECTOR 19P	
* CN1211	1-564-506-11	PLUG, CONNECTOR 3P	
* CN1212	1-564-508-11	PLUG, CONNECTOR 5P	
* CN1301	1-566-210-11	PIN, CONNECTOR 3P	(AEP, G, IT, EE, UK)

< DIODE >

D351	8-719-912-20	DIODE	1SS120 (AEP, G, IT, EE, UK)
D1202	8-719-912-20	DIODE	1SS120
D1203	8-719-912-20	DIODE	1SS120
D1204	8-719-912-20	DIODE	1SS120
D1302	8-719-312-09	DIODE	RBA-402
D1303	8-719-200-82	DIODE	11ES2
D1304	8-719-200-82	DIODE	11ES2
D1305	8-719-200-82	DIODE	11ES2
D1306	8-719-200-82	DIODE	11ES2
D1318	8-719-200-82	DIODE	11ES2
D1319	8-719-200-82	DIODE	11ES2
D1321	8-719-912-20	DIODE	1SS120
D1323	8-719-912-20	DIODE	1SS120
D1324	8-719-912-20	DIODE	1SS120
D1341	8-719-001-76	DIODE	UZL-12M3
D1368	8-719-200-82	DIODE	11ES2
D1369	8-719-200-82	DIODE	11ES2

< FRONT END >

FE301	1-463-857-21	FRONT END (FM)	(G, IT)
FE301	1-465-006-11	FRONT END (FM) (2 GANG)	(US, CND, AEP, UK)
FE301	1-465-396-11	FRONT END (FM) (3 GANG)	(EE)
FE351	1-236-463-11	ENCAPSULATED COMPONENT	(AEP, G, IT, EE, UK)
FE352	1-239-260-11	ENCAPSULATED COMPONENT	(US, CND)
FE352	1-239-261-11	ENCAPSULATED COMPONENT	(AEP, G, IT, EE, UK)

< IC >

IC301	8-759-821-45	IC	LA1851N
IC400	8-759-604-86	IC	M5F7807L
IC401	8-759-821-93	IC	LA5601
IC402	8-752-337-26	IC	CXD2500AQ
IC403	8-752-337-09	IC	CXD2554P
IC404	8-759-506-63	IC	PCM67U
IC406	8-759-634-51	IC	M5218AP
IC407	8-759-634-51	IC	M5218AP

MAIN

Ref. No.	Part No.	Description	Remark
IC501	8-759-820-91	IC LC7218	
IC1001	8-759-634-51	IC M5218AP	
IC1002	8-759-000-48	IC MC14052BCP	
IC1003	8-759-634-51	IC M5218AP	
IC1004	8-759-000-49	IC MC14066BCP	
IC1202	8-759-111-68	IC uPC1237HA	
IC1303	8-759-604-86	IC M5F7807L	
IC1304	8-759-604-90	IC M5F7907L	
IC1305	8-759-820-13	IC L78MR06	
IC1306	8-759-231-58	IC M5F7812L (AEP, G, IT, EE, UK)	
		< TRANSFORMER >	
IFT301	1-404-713-11	TRANSFORMER, IF	
		< COIL >	
L301	1-410-686-11	INDUCTOR 1mH (US, CND)	
L301	1-407-500-00	INDUCTOR 4.7mH (AEP, G, IT, EE, UK)	
L351	1-410-525-11	INDUCTOR 220uH (AEP, G, IT, EE, UK)	
L1301	1-408-117-00	INDUCTOR 10uH (G, IT)	
L1302	1-408-117-00	INDUCTOR 10uH (G, IT)	
		< FILTER >	
LPF301	1-235-164-00	FILTER, LOW PASS	
LPF301	1-235-164-31	FILTER, LOW PASS	
LPF302	1-235-164-00	FILTER, LOW PASS	
LPF302	1-235-164-31	FILTER, LOW PASS	
		< IC LINK >	
⚠PS401	1-532-675-00	LINK, IC 1.5A	
		< TRANSISTOR >	
Q301	8-729-230-99	TRANSISTOR 2SC2669-OY (G, IT)	
Q302	8-729-230-99	TRANSISTOR 2SC2669-OY (G, IT)	
Q303	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q304	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q305	8-729-900-80	TRANSISTOR DTC114ES	
Q306	8-729-900-61	TRANSISTOR DTA114ES	
Q307	8-729-900-80	TRANSISTOR DTC114ES	
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q309	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-900-80	TRANSISTOR DTC114ES (AEP, G, IT, EE, UK)	
Q352	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP, G, IT, EE, UK)	
Q353	8-729-119-76	TRANSISTOR 2SA1175-HFE (AEP, G, IT, EE, UK)	
Q354	8-729-900-80	TRANSISTOR DTC114ES (AEP, G, IT, EE, UK)	
Q355	8-729-900-80	TRANSISTOR DTC114ES (AEP, G, IT, EE, UK)	
Q356	8-729-900-80	TRANSISTOR DTC114ES (AEP, G, IT, EE, UK)	
Q413	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q414	8-729-900-61	TRANSISTOR DTA114ES	
Q415	8-729-900-61	TRANSISTOR DTA114ES	
Q501	8-729-900-80	TRANSISTOR DTC114ES	
Q502	8-729-900-61	TRANSISTOR DTA114ES	
Q521	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q522	8-729-201-84	TRANSISTOR 2SC3112-B	
Q531	8-729-202-67	TRANSISTOR 2SK246-GR3 (AEP, G, IT, EE, UK)	
Q532	8-729-201-84	TRANSISTOR 2SC3112-B (AEP, G, IT, EE, UK)	
Q1001	8-729-11	TRANSISTOR 2SA1175-HFE	
Q1002	8-729-900-36	TRANSISTOR DTC124ES	
Q1034	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1035	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1204	8-729-900-63	TRANSISTOR DTA124ES	
Q1302	8-729-209-15	TRANSISTOR 2SD2012	
		< RESISTOR >	
R301	1-249-401-11	CARBON 47 5% 1/4W	
R302	1-249-413-11	CARBON 470 5% 1/4W (US, CND, AEP, EE, UK)	
R302	1-249-405-11	CARBON 100 5% 1/4W (G, IT)	
R303	1-249-411-11	CARBON 330 5% 1/4W (G, IT)	
R304	1-249-432-11	CARBON 18K 5% 1/4W (G, IT)	
R305	1-249-411-11	CARBON 330 5% 1/4W (G, IT)	
R306	1-249-434-11	CARBON 27K 5% 1/4W (G, IT)	
R307	1-249-414-11	CARBON 560 5% 1/4W (G, IT)	
R308	1-249-411-11	CARBON 330 5% 1/4W	
R309	1-249-432-11	CARBON 18K 5% 1/4W	
R310	1-249-411-11	CARBON 330 5% 1/4W	
R311	1-249-434-11	CARBON 27K 5% 1/4W	
R312	1-249-414-11	CARBON 560 5% 1/4W	
R313	1-249-405-11	CARBON 100 5% 1/4W	
R314	1-249-437-11	CARBON 47K 5% 1/4W (G, IT)	
R315	1-249-404-00	CARBON 82 5% 1/4W	
R315	1-249-435-11	CARBON 33K 5% 1/4W (G, IT)	
R316	1-249-428-11	CARBON 8.2K 5% 1/4W (US, CND)	
R316	1-249-429-11	CARBON 10K 5% 1/4W (AEP, G, IT, EE, UK)	
R317	1-249-417-11	CARBON 1K 5% 1/4W	
R318	1-249-435-11	CARBON 33K 5% 1/4W	
R319	1-249-428-11	CARBON 8.2K 5% 1/4W	
R320	1-249-432-11	CARBON 18K 5% 1/4W	
R321	1-249-423-11	CARBON 3.3K 5% 1/4W	
R322	1-249-429-11	CARBON 10K 5% 1/4W	
R323	1-249-418-11	CARBON 1.2K 5% 1/4W (US, CND, AEP, EE, UK)	
R323	1-249-417-11	CARBON 1K 5% 1/4W (G, IT)	
R324	1-249-429-11	CARBON 10K 5% 1/4W	
R325	1-249-429-11	CARBON 10K 5% 1/4W	
R326	1-249-409-11	CARBON 220 5% 1/4W	
R327	1-249-437-11	CARBON 47K 5% 1/4W	
R328	1-249-437-11	CARBON 47K 5% 1/4W	
R331	1-247-891-00	CARBON 330K 5% 1/4W	
R332	1-247-891-00	CARBON 330K 5% 1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifé.

Ref. No.	Part No.	Description				Remark
R333	1-249-421-11	CARBON	2.2K	5%	1/4W	
R334	1-249-421-11	CARBON	2.2K	5%	1/4W	
R335	1-249-420-11	CARBON	1.8K	5%	1/4W	
R336	1-249-420-11	CARBON	1.8K	5%	1/4W	
R337	1-249-426-11	CARBON	5.6K	5%	1/4W	
R338	1-249-426-11	CARBON	5.6K	5%	1/4W	
R351	1-249-433-11	CARBON	22K	5%	1/4W	(AEP, G, IT, EE, UK)
R352	1-249-437-11	CARBON	47K	5%	1/4W	(AEP, G, IT, EE, UK)
R353	1-247-903-00	CARBON	1M	5%	1/4W	(AEP, G, IT, EE, UK)
R354	1-249-441-11	CARBON	100K	5%	1/4W	(AEP, G, IT, EE, UK)
R355	1-249-433-11	CARBON	22K	5%	1/4W	(AEP, G, IT, EE, UK)
R356	1-249-421-11	CARBON	2.2K	5%	1/4W	(AEP, G, IT, EE, UK)
R361	1-249-437-11	CARBON	47K	5%	1/4W	
R362	1-249-437-11	CARBON	47K	5%	1/4W	
R363	1-249-425-11	CARBON	4.7K	5%	1/4W	(AEP, G, IT, EE, UK)
R364	1-249-425-11	CARBON	4.7K	5%	1/4W	(AEP, G, IT, EE, UK)
R365	1-249-429-11	CARBON	10K	5%	1/4W	(AEP, G, IT, EE, UK)
R366	1-249-413-11	CARBON	470	5%	1/4W	(AEP, G, IT, EE, UK)
R367	1-249-434-11	CARBON	27K	5%	1/4W	(AEP, G, IT, EE, UK)
R368	1-249-433-11	CARBON	22K	5%	1/4W	(AEP, G, IT, EE, UK)
R401	1-249-405-11	CARBON	100	5%	1/4W	
R408	1-249-429-11	CARBON	10K	5%	1/4W	
R409	1-249-423-11	CARBON	3.3K	5%	1/4W	
R410	1-249-423-11	CARBON	3.3K	5%	1/4W	
R411	1-249-441-11	CARBON	100K	5%	1/4W	
R412	1-249-429-11	CARBON	10K	5%	1/4W	
R413	1-249-417-11	CARBON	1K	5%	1/4W	
R414	1-249-417-11	CARBON	1K	5%	1/4W	
R415	1-249-420-11	CARBON	1.8K	5%	1/4W	
R416	1-249-417-11	CARBON	1K	5%	1/4W	
R417	1-249-417-11	CARBON	1K	5%	1/4W	
R418	1-249-417-11	CARBON	1K	5%	1/4W	
R419	1-249-417-11	CARBON	1K	5%	1/4W	
R420	1-249-433-11	CARBON	22K	5%	1/4W	
R421	1-249-413-11	CARBON	470	5%	1/4W	
R422	1-249-413-11	CARBON	470	5%	1/4W	
R423	1-249-417-11	CARBON	1K	5%	1/4W	
R424	1-249-417-11	CARBON	1K	5%	1/4W	
R425	1-249-417-11	CARBON	1K	5%	1/4W	
R426	1-249-418-11	CARBON	1.2K	5%	1/4W	
R427	1-249-418-11	CARBON	1.2K	5%	1/4W	
R437	1-249-417-11	CARBON	1K	5%	1/4W	
R438	1-249-417-11	CARBON	1K	5%	1/4W	
R441	1-249-441-11	CARBON	100K	5%	1/4W	
R442	1-249-441-11	CARBON	100K	5%	1/4W	
R443	1-249-429-11	CARBON	10K	5%	1/4W	
R444	1-249-429-11	CARBON	10K	5%	1/4W	
R445	1-249-435-11	CARBON	33K	5%	1/4W	
R446	1-249-435-11	CARBON	33K	5%	1/4W	
R447	1-249-441-11	CARBON	100K	5%	1/4W	
R448	1-249-441-11	CARBON	100K	5%	1/4W	
R449	1-249-425-11	CARBON	4.7K	5%	1/4W	
R450	1-249-425-11	CARBON	4.7K	5%	1/4W	
R460	1-249-441-11	CARBON	100K	5%	1/4W	
R461	1-249-441-11	CARBON	100K	5%	1/4W	
R467	1-249-429-11	CARBON	10K	5%	1/4W	
R501	1-249-417-11	CARBON	1K	5%	1/4W	
R502	1-249-417-11	CARBON	1K	5%	1/4W	
R503	1-249-417-11	CARBON	1K	5%	1/4W	
R504	1-249-417-11	CARBON	1K	5%	1/4W	
R505	1-249-429-11	CARBON	10K	5%	1/4W	
R506	1-249-417-11	CARBON	1K	5%	1/4W	
R510	1-249-401-11	CARBON	47	5%	1/4W	
R511	1-249-429-11	CARBON	10K	5%	1/4W	
R512	1-249-425-11	CARBON	4.7K	5%	1/4W	
R513	1-249-417-11	CARBON	1K	5%	1/4W	
R514	1-249-429-11	CARBON	10K	5%	1/4W	
R515	1-249-417-11	CARBON	1K	5%	1/4W	
R521	1-249-423-11	CARBON	3.3K	5%	1/4W	
R522	1-249-425-11	CARBON	4.7K	5%	1/4W	
R523	1-249-414-11	CARBON	560	5%	1/4W	
R524	1-249-417-11	CARBON	1K	5%	1/4W	
R525	1-249-410-11	CARBON	270	5%	1/4W	
R526	1-249-421-11	CARBON	2.2K	5%	1/4W	
R527	1-249-425-11	CARBON	4.7K	5%	1/4W	
R528	1-249-425-11	CARBON	4.7K	5%	1/4W	
R529	1-249-405-11	CARBON	100	5%	1/4W	
R530	1-249-405-11	CARBON	100	5%	1/4W	
R531	1-249-423-11	CARBON	3.3K	5%	1/4W	(AEP, G, IT, EE, UK)
R532	1-249-433-11	CARBON	22K	5%	1/4W	(AEP, G, IT, EE, UK)
R533	1-249-414-11	CARBON	560	5%	1/4W	(AEP, G, IT, EE, UK)
R534	1-249-417-11	CARBON	1K	5%	1/4W	(AEP, G, IT, EE, UK)
R535	1-249-410-11	CARBON	270	5%	1/4W	(AEP, G, IT, EE, UK)
R536	1-249-421-11	CARBON	2.2K	5%	1/4W	(AEP, G, IT, EE, UK)
R537	1-249-425-11	CARBON	4.7K	5%	1/4W	(AEP, G, IT, EE, UK)
R538	1-249-405-11	CARBON	100	5%	1/4W	(AEP, EE, UK)
R1001	1-249-417-11	CARBON	1K	5%	1/4W	
R1002	1-249-441-11	CARBON	100K	5%	1/4W	
R1003	1-249-416-11	CARBON	820	5%	1/4W	
R1004	1-247-897-11	CARBON	560K	5%	1/4W	
R1005	1-249-437-11	CARBON	47K	5%	1/4W	
R1006	1-249-409-11	CARBON	220	5%	1/4W	
R1007	1-249-441-11	CARBON	100K	5%	1/4W	
R1008	1-249-409-11	CARBON	220	5%	1/4W	
R1011	1-249-441-11	CARBON	100K	5%	1/4W	
R1012	1-249-417-11	CARBON	1K	5%	1/4W	

MAIN PANEL

Ref.No.	Part No.	Description				Remark
R1013	1-249-441-11	CARBON	100K	5%	1/4W	
R1014	1-249-437-11	CARBON	47K	5%	1/4W	
R1015	1-249-437-11	CARBON	47K	5%	1/4W	
R1016	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1017	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1018	1-249-433-11	CARBON	22K	5%	1/4W	
R1019	1-249-433-11	CARBON	22K	5%	1/4W	
R1021	1-249-434-11	CARBON	27K	5%	1/4W	
R1023	1-249-434-11	CARBON	27K	5%	1/4W	
R1024	1-249-417-11	CARBON	1K	5%	1/4W	
R1026	1-249-433-11	CARBON	22K	5%	1/4W	
R1029	1-249-433-11	CARBON	22K	5%	1/4W	
R1034	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1035	1-249-437-11	CARBON	47K	5%	1/4W	
R1036	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1037	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1051	1-249-417-11	CARBON	1K	5%	1/4W	
R1052	1-249-441-11	CARBON	100K	5%	1/4W	
R1053	1-249-416-11	CARBON	820	5%	1/4W	
R1054	1-247-897-11	CARBON	560K	5%	1/4W	
R1055	1-249-437-11	CARBON	47K	5%	1/4W	
R1056	1-249-409-11	CARBON	220	5%	1/4W	
R1057	1-249-441-11	CARBON	100K	5%	1/4W	
R1058	1-249-409-11	CARBON	220	5%	1/4W	
R1061	1-249-441-11	CARBON	100K	5%	1/4W	
R1062	1-249-417-11	CARBON	1K	5%	1/4W	
R1063	1-249-441-11	CARBON	100K	5%	1/4W	
R1071	1-249-434-11	CARBON	27K	5%	1/4W	
R1073	1-249-434-11	CARBON	27K	5%	1/4W	
R1074	1-249-417-11	CARBON	1K	5%	1/4W	
R1095	1-249-433-11	CARBON	22K	5%	1/4W	
R1222	1-249-415-11	CARBON	680	5%	1/4W	
R1223	1-249-415-11	CARBON	680	5%	1/4W	
R1226	1-215-887-00	METAL OXIDE	150	5%	2W	F
R1233	1-249-432-11	CARBON	18K	5%	1/4W	
R1234	1-249-432-11	CARBON	18K	5%	1/4W	
R1235	1-249-435-11	CARBON	33K	5%	1/4W	
R1236	1-249-441-11	CARBON	100K	5%	1/4W	
R1237	1-249-429-11	CARBON	10K	5%	1/4W	
R1240	1-249-438-11	CARBON	56K	5%	1/4W	
R1241	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1242	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1243	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1244	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1272	1-249-415-11	CARBON	680	5%	1/4W	
R1273	1-249-415-11	CARBON	680	5%	1/4W	
R1290	1-249-437-11	CARBON	47K	5%	1/4W	
R1301	1-249-429-11	CARBON	10K	5%	1/4W	
R1302	1-249-429-11	CARBON	10K	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R1321	1-249-417-11	CARBON	1K	5%	1/4W	
R1322	1-249-429-11	CARBON	10K	5%	1/4W	
R1345	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1346	1-249-425-11	CARBON	4.7K	5%	1/4W	(AEP, G, IT, EE, UK)
		< VARIABLE RESISTOR >				
RV301	1-238-601-11	RES, ADJ, CARBON 22K				
RV302	1-238-601-11	RES, ADJ, CARBON 22K				
		< RELAY >				
RY1201	1-515-533-11	RELAY				
		< TRANSFORMER >				
T301	1-404-807-11	TRANSFORMER, DISCRIMINATOR				
T302	1-235-126-00	ENCAPSULATED COMPONENT (G, IT)				
		< TERMINAL BOARD >				
* TM301	1-537-264-11	TERMINAL BOARD (US, CND)				
* TM301	1-537-288-11	TERMINAL BOARD (PAL) (AEP, G, IT, EE, UK)				
		< TEST PIN >				
* TP1	1-560-060-00	PIN, CONNECTOR 2P				
		< CRYSTAL >				
X401	1-567-908-11	VIBRATOR, CRYSTAL (16MHz)				
		< CRYSTAL >				
XT501	1-577-126-11	VIBRATOR, CRYSTAL (7.5MHz)				
XT501	1-579-383-11	VIBRATOR, CRYSTAL				
**********						
*	A-4347-061-A	PANEL BOARD, COMPLETE (AEP, G, UK)				
*	A-4347-360-A	PANEL BOARD, COMPLETE (IT)				
*	A-4347-519-A	PANEL BOARD, COMPLETE (US, CND)				
*	A-4347-894-A	PANEL BOARD, COMPLETE (EE)				
		**********				
*	4-930-781-11	HOLDER (VO), LED				
*	4-942-301-01	HOLDER, FL TUBE				
*	4-948-247-01	HOLDER (FU), LED				
*	4-949-935-01	CUSHION (FL)				
		< CAPACITOR >				
C603	1-136-169-00	FILM	0.22uF	5%	50V	
C604	1-164-159-11	CERAMIC	0.1uF		50V	
C605	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V	
C606	1-164-159-11	CERAMIC	0.1uF		50V	
C607	1-124-907-11	ELECT	10uF	20%	50V	

PANEL

Ref. No.	Part No.	Description				Remark
C608	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C609	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C650	1-124-907-11	ELECT	10uF	20%	50V	
C1101	1-124-257-00	ELECT	2.2uF	20%	50V	
C1102	1-124-589-11	ELECT	47uF	20%	16V	
C1103	1-162-282-31	CERAMIC	100PF	10%	50V	
C1104	1-124-257-00	ELECT	2.2uF	20%	50V	
C1105	1-124-464-11	ELECT	0.22uF	20%	50V	
C1106	1-136-161-00	FILM	0.047uF	5%	50V	
C1107	1-136-155-00	FILM	0.015uF	5%	50V	
C1108	1-136-155-00	FILM	0.015uF	5%	50V	
C1109	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C1110	1-161-327-00	CERAMIC	0.0033uF	20%	16V	
C1111	1-136-155-00	FILM	0.015uF	5%	50V	
C1112	1-136-157-00	FILM	0.022uF	5%	50V	
C1113	1-136-153-00	FILM	0.01uF	5%	50V	
C1114	1-161-377-00	CERAMIC	0.0047uF	20%	16V	
C1115	1-124-257-00	ELECT	2.2uF	20%	50V	
C1121	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C1123	1-162-286-31	CERAMIC	220PF	10%	50V	
C1131	1-162-215-31	CERAMIC	47PF	5%	50V	
C1132	1-162-215-31	CERAMIC	47PF	5%	50V	
C1151	1-124-257-00	ELECT	2.2uF	20%	50V	
C1152	1-124-589-11	ELECT	47uF	20%	16V	
C1153	1-162-282-31	CERAMIC	100PF	10%	50V	
C1154	1-124-257-00	ELECT	2.2uF	20%	50V	
C1155	1-124-464-11	ELECT	0.22uF	20%	50V	
C1156	1-136-161-00	FILM	0.047uF	5%	50V	
C1157	1-136-155-00	FILM	0.015uF	5%	50V	
C1158	1-136-155-00	FILM	0.015uF	5%	50V	
C1159	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C1160	1-161-327-00	CERAMIC	0.0033uF	20%	16V	
C1161	1-136-155-00	FILM	0.015uF	5%	50V	
C1162	1-136-157-00	FILM	0.022uF	5%	50V	
C1163	1-136-153-00	FILM	0.01uF	5%	50V	
C1164	1-161-377-00	CERAMIC	0.0047uF	20%	16V	
C1165	1-124-257-00	ELECT	2.2uF	20%	50V	
C1173	1-162-286-31	CERAMIC	220PF	10%	50V	
C1181	1-162-215-31	CERAMIC	47PF	5%	50V	
C1182	1-162-215-31	CERAMIC	47PF	5%	50V	
C1197	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C1198	1-161-494-00	CERAMIC	0.022uF		25V	

< CONNECTOR >

* CN601	1-568-830-11	SOCKET, CONNECTOR 11P	
CN1101	1-568-802-11	SOCKET, CONNECTOR 19P	

Ref. No.	Part No.	Description		Remark
		< DIODE >		
D601	8-719-912-20	DIODE	1SS120	
D602	8-719-010-26	DIODE	UZ-3.9BSB	
D603	8-719-912-20	DIODE	1SS120	
D604	8-719-912-20	DIODE	1SS120	
D611	8-719-912-20	DIODE	1SS120	
D612	8-719-912-20	DIODE	1SS120	
D613	8-719-912-20	DIODE	1SS120	
D614	8-719-912-20	DIODE	1SS120	
D618	8-719-912-20	DIODE	1SS120	
D621	8-719-912-20	DIODE	1SS120 (US, CND, IT)	
D622	8-719-912-20	DIODE	1SS120 (EE)	
D624	8-719-912-20	DIODE	1SS120 (US, CND, EE)	
D625	8-719-912-20	DIODE	1SS120	
D636	8-719-912-20	DIODE	1SS120	
D641	8-719-200-82	DIODE	11ES2	
D1130	8-719-302-45	LED	SEL1210S (VIDEO)	
D1131	8-719-302-45	LED	SEL1210S (CD)	
D1132	8-719-302-45	LED	SEL1210S (PHONO)	
D1133	8-719-302-45	LED	SEL1210S (TUNER)	
D1134	8-719-302-45	LED	SEL1210S (TAPE)	
D1145	8-719-301-39	LED	SEL2210S-D (VOLUME)	
D1151	8-719-912-20	DIODE	1SS120	
D1152	8-719-912-20	DIODE	1SS120	
D1153	8-719-912-20	DIODE	1SS120	
		< FILTER >		
FL601	1-519-711-11	INDICATOR TUBE, FLUORESCENT		
		< IC >		
IC601	8-759-053-97	IC	uPD75212ACW-A21	
IC602	8-749-920-83	IC	GP1U52XB	
IC1101	8-759-634-51	IC	M5218AP	
IC1102	8-759-634-51	IC	M5218AP	
IC1103	8-759-820-62	IC	LB1639	
IC1104	8-759-916-12	IC	SN74HC00AN	
		< COIL >		
L601	1-410-521-11	INDUCTOR	100uH	
		< TRANSISTOR >		
Q601	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q602	8-729-900-80	TRANSISTOR	DTC114ES	
Q1101	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q1102	8-729-141-26	TRANSISTOR	2SC3622A-LK	
Q1121	8-729-900-36	TRANSISTOR	DTC124ES	
Q1122	8-729-919-76	TRANSISTOR	2SA1175-HFE	

PANEL

Ref. No.	Part No.	Description				Remark
Q1136	8-729-900-36	TRANSISTOR	DTC124ES			
Q1138	8-729-900-36	TRANSISTOR	DTC124ES			
Q1139	8-729-900-36	TRANSISTOR	DTC124ES			
Q1141	8-729-900-63	TRANSISTOR	DTA124ES			
Q1143	8-729-900-80	TRANSISTOR	DTC114ES			
Q1144	8-729-900-80	TRANSISTOR	DTC114ES			
Q1145	8-729-900-61	TRANSISTOR	DTA114ES			
Q1151	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q1152	8-729-141-26	TRANSISTOR	2SC3622A-LK			
		< RESISTOR >				
R601	1-249-429-11	CARBON	10K	5%	1/4W	
R602	1-249-429-11	CARBON	10K	5%	1/4W	
R603	1-249-423-11	CARBON	3.3K	5%	1/4W	
R604	1-249-437-11	CARBON	47K	5%	1/4W	
R605	1-249-433-11	CARBON	22K	5%	1/4W	
R606	1-249-433-11	CARBON	22K	5%	1/4W	
R607	1-249-439-11	CARBON	68K	5%	1/4W	
R608	1-249-417-11	CARBON	1K	5%	1/4W	
R609	1-249-405-11	CARBON	100	5%	1/4W	
R610	1-249-429-11	CARBON	10K	5%	1/4W	
R611	1-249-437-11	CARBON	47K	5%	1/4W	
R612	1-249-417-11	CARBON	1K	5%	1/4W	
R621	1-249-433-11	CARBON	22K	5%	1/4W	
R622	1-249-433-11	CARBON	22K	5%	1/4W	
R623	1-249-433-11	CARBON	22K	5%	1/4W	
R624	1-249-433-11	CARBON	22K	5%	1/4W	
R641	1-249-417-11	CARBON	1K	5%	1/4W	
R1101	1-249-441-11	CARBON	100K	5%	1/4W	
R1102	1-249-417-11	CARBON	1K	5%	1/4W	
R1103	1-249-431-11	CARBON	15K	5%	1/4W	
R1104	1-249-441-11	CARBON	100K	5%	1/4W	
R1105	1-249-433-11	CARBON	22K	5%	1/4W	
R1106	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1107	1-249-441-11	CARBON	100K	5%	1/4W	
R1108	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1109	1-249-412-11	CARBON	390	5%	1/4W	
R1110	1-249-431-11	CARBON	15K	5%	1/4W	
R1111	1-249-439-11	CARBON	68K	5%	1/4W	
R1112	1-249-433-11	CARBON	22K	5%	1/4W	
R1113	1-249-431-11	CARBON	15K	5%	1/4W	
R1114	1-249-429-11	CARBON	10K	5%	1/4W	
R1115	1-249-429-11	CARBON	10K	5%	1/4W	
R1116	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1117	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1118	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1119	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1120	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1121	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1122	1-247-887-00	CARBON	220K	5%	1/4W	
R1123	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1124	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1125	1-249-433-11	CARBON	22K	5%	1/4W	
R1130	1-249-412-11	CARBON	390	5%	1/4W	
R1132	1-249-412-11	CARBON	390	5%	1/4W	
R1133	1-249-412-11	CARBON	390	5%	1/4W	
R1135	1-249-433-11	CARBON	22K	5%	1/4W	
R1143	1-249-433-11	CARBON	22K	5%	1/4W	
R1145	1-249-412-11	CARBON	390	5%	1/4W	
R1149	1-249-429-11	CARBON	10K	5%	1/4W	
R1151	1-249-441-11	CARBON	100K	5%	1/4W	
R1152	1-249-417-11	CARBON	1K	5%	1/4W	
R1154	1-249-441-11	CARBON	100K	5%	1/4W	
R1155	1-249-433-11	CARBON	22K	5%	1/4W	
R1156	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1157	1-249-441-11	CARBON	100K	5%	1/4W	
R1158	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1159	1-249-412-11	CARBON	390	5%	1/4W	
R1160	1-249-431-11	CARBON	15K	5%	1/4W	
R1161	1-249-439-11	CARBON	68K	5%	1/4W	
R1162	1-249-433-11	CARBON	22K	5%	1/4W	
R1163	1-249-431-11	CARBON	15K	5%	1/4W	
R1164	1-249-429-11	CARBON	10K	5%	1/4W	
R1165	1-249-429-11	CARBON	10K	5%	1/4W	
R1166	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1167	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1168	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1169	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1170	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1171	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1172	1-247-887-00	CARBON	220K	5%	1/4W	
R1173	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1174	1-249-425-11	CARBON	4.7K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV1101	1-241-353-11	RES, VAR, CARBON	100K/100K			(SURROUND)
RV1102	1-241-353-11	RES, VAR, CARBON	100K/100K			(CBFB)
RV1103	1-241-351-11	RES, VAR, SLIDE	100K/100K			(100Hz)
RV1104	1-241-351-11	RES, VAR, SLIDE	100K/100K			(330Hz)
RV1105	1-241-351-11	RES, VAR, SLIDE	100K/100K			(1KHz)
RV1106	1-241-351-11	RES, VAR, SLIDE	100K/100K			(3.3KHz)
RV1107	1-241-351-11	RES, VAR, SLIDE	100K/100K			(10KHz)
RV1108	1-241-352-11	RES, VAR, CARBON	100K/100K			(BALANCE)
		< SWITCH >				
S601	1-554-303-21	SWITCH, TACTILE	(1)			
S602	1-554-303-21	SWITCH, TACTILE	(2)			

PANEL POWER AMP

Ref. No.	Part No.	Description	Remark
S603	1-554-303-21	SWITCH, TACTILE (3)	
S604	1-554-303-21	SWITCH, TACTILE (4)	
S605	1-554-303-21	SWITCH, TACTILE (5)	
S606	1-554-303-21	SWITCH, TACTILE (6)	
S607	1-554-303-21	SWITCH, TACTILE (7)	
S608	1-554-303-21	SWITCH, TACTILE (8)	
S609	1-554-303-21	SWITCH, TACTILE (9)	
S610	1-554-303-21	SWITCH, TACTILE (0)	
S611	1-554-303-21	SWITCH, TACTILE (SHIFT)	
S612	1-554-303-21	SWITCH, TACTILE (BAND SELECT)	
S613	1-554-303-21	SWITCH, TACTILE (ST/MUTE)	
S614	1-554-303-21	SWITCH, TACTILE (DUAL MODE TUNING +)	
S615	1-554-303-21	SWITCH, TACTILE (DUAL MODE TUNING -)	
S619	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S636	1-554-303-21	SWITCH, TACTILE (TAPE)	
S637	1-554-303-21	SWITCH, TACTILE (CD)	
S638	1-554-303-21	SWITCH, TACTILE (TUNER)	
S639	1-554-303-21	SWITCH, TACTILE (PHONO)	
S640	1-554-303-21	SWITCH, TACTILE (VIDEO)	
		< CRYSTAL >	
X601	1-567-775-11	VIBRATOR, CERAMIC (4.19MHz)	
**********			
*	A-4347-068-A	POWER AMP BOARD, COMPLETE (AEP, EE, UK)	
*	A-4347-366-A	POWER AMP BOARD, COMPLETE (G, IT)	
*	A-4347-531-A	POWER AMP BOARD, COMPLETE (US, CND)	
		**********	
		< CAPACITOR >	
C1201	1-124-257-00	ELECT 2.2uF 20% 50V	
C1202	1-162-286-31	CERAMIC 220PF 10% 50V (US, CND, AEP, EE, UK)	
C1202	1-162-290-31	CERAMIC 470PF 10% 50V (G, IT)	
C1203	1-162-286-31	CERAMIC 220PF 10% 50V (US, CND, AEP, EE, UK)	
C1203	1-162-290-31	CERAMIC 470PF 10% 50V (G, IT)	
C1204	1-124-910-11	ELECT 47uF 20% 50V (US, CND)	
C1204	1-124-477-11	ELECT 47uF 20% 25V (AEP, G, IT, EE, UK)	
C1205	1-126-233-11	ELECT 22uF 20% 50V (US, CND)	
C1205	1-124-910-11	ELECT 47uF 20% 50V (AEP, G, IT, EE, UK)	
C1206	1-124-122-11	ELECT 100uF 20% 50V	
C1207	1-136-165-00	FILM 0.1uF 5% 50V	
C1208	1-126-233-11	ELECT 22uF 20% 50V	
C1209	1-136-165-00	FILM 0.1uF 5% 50V	
C1210	1-136-163-00	FILM 0.068uF 5% 50V	
C1211	1-136-163-00	FILM 0.068uF 5% 50V	
C1220	1-124-910-11	ELECT 47uF 20% 50V	
C1230	1-161-494-00	CERAMIC 0.022uF 25V (G, IT)	
C1231	1-161-494-00	CERAMIC 0.022uF 25V (G, IT)	
C1232	1-161-494-00	CERAMIC 0.022uF 25V (G, IT)	
C1233	1-161-494-00	CERAMIC 0.022uF 25V (G, IT)	
C1251	1-124-257-00	ELECT 2.2uF 20% 50V	
C1252	1-162-286-31	CERAMIC 220PF 10% 50V (US, CND, AEP, EE, UK)	
C1252	1-162-290-31	CERAMIC 470PF 10% 50V (G, I)	
C1253	1-162-286-31	CERAMIC 220PF 10% 50V (US, CND, AEP, EE, UK)	
C1253	1-162-290-31	CERAMIC 470PF 10% 50V (G, IT)	
C1254	1-124-910-11	ELECT 47uF 20% 50V (US, CND)	
C1254	1-124-477-11	ELECT 47uF 20% 25V (AEP, G, IT, EE, UK)	
C1255	1-126-233-11	ELECT 22uF 20% 50V (US, CND)	
C1255	1-124-910-11	ELECT 47uF 20% 50V (AEP, G, IT, EE, UK)	
C1256	1-124-122-11	ELECT 100uF 20% 50V	
C1257	1-136-165-00	FILM 0.1uF 5% 50V	
C1260	1-136-163-00	FILM 0.068uF 5% 50V	
C1261	1-136-163-00	FILM 0.068uF 5% 50V	
C1280	1-161-494-00	CERAMIC 0.022uF 25V (G, IT)	
		< DIODE >	
D1201	8-719-912-20	DIODE 1SS120	
D1251	8-719-912-20	DIODE 1SS120	
		< IC >	
IC1201	8-749-920-19	IC STK4122MK2	
		< COIL >	
L1201	1-420-872-00	COIL, AIR CORE	
L1251	1-420-872-00	COIL, AIR CORE	
		< TRANSISTOR >	
Q1201	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q1202	8-729-900-80	TRANSISTOR DTC114ES	
Q1203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1251	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
		< RESISTOR >	
R1201	1-249-417-11	CARBON 1K 5% 1/4W	
R1202	1-249-438-11	CARBON 56K 5% 1/4W	
R1203	1-249-417-11	CARBON 1K 5% 1/4W	
R1204	1-249-438-11	CARBON 56K 5% 1/4W	
R1205	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1206	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1207	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1208	1-249-425-11	CARBON 4.7K 5% 1/4W	
⚠ R1209	1-212-881-11	FUSIBLE 100 5% 1/4W F	
⚠ R1210	1-217-151-00	RES, METAL PLATE 0.22	
R1211	1-249-417-11	CARBON 1K 5% 1/4W	
R1212	1-249-431-11	CARBON 15K 5% 1/4W	
R1213	1-249-441-11	CARBON 100K 5% 1/4W	
R1214	1-249-421-11	CARBON 2.2K 5% 1/4W	

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POWER AMP | POWER | SW

Ref. No.	Part No.	Description			Remark
R1215	1-249-421-11	CARBON	2.2K	5% 1/4W	
R1216	1-249-421-11	CARBON	2.2K	5% 1/4W	
R1217	1-249-421-11	CARBON	2.2K	5% 1/4W	
R1218	1-249-397-11	CARBON	22	5% 1/4W	
R1219	1-249-397-11	CARBON	22	5% 1/4W	
R1220	1-249-397-11	CARBON	22	5% 1/4W	
R1221	1-249-397-11	CARBON	22	5% 1/4W	
R1227	1-249-429-11	CARBON	10K	5% 1/4W	
R1228	1-247-881-00	CARBON	120K	5% 1/4W	
R1229	1-249-439-11	CARBON	68K	5% 1/4W	
R1230	1-249-439-11	CARBON	68K	5% 1/4W	
R1231	1-249-417-11	CARBON	1K	5% 1/4W	
R1232	1-249-428-11	CARBON	8.2K	5% 1/4W	
R1238	1-249-433-11	CARBON	22K	5% 1/4W	
R1239	1-249-426-11	CARBON	5.6K	5% 1/4W	
R1251	1-249-417-11	CARBON	1K	5% 1/4W	
R1252	1-249-438-11	CARBON	56K	5% 1/4W	
R1253	1-249-417-11	CARBON	1K	5% 1/4W	
R1254	1-249-438-11	CARBON	56K	5% 1/4W	
R1255	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1256	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1257	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1258	1-249-425-11	CARBON	4.7K	5% 1/4W	
⚠ R1259	1-212-881-11	FUSIBLE	100	5% 1/4W F	
⚠ R1260	1-217-151-00	RES, METAL PLATE		0.22	
R1261	1-249-417-11	CARBON	1K	5% 1/4W	
R1262	1-249-431-11	CARBON	15K	5% 1/4W	
R1263	1-249-441-11	CARBON	100K	5% 1/4W	
R1268	1-249-397-11	CARBON	22	5% 1/4W	
R1269	1-249-397-11	CARBON	22	5% 1/4W	
R1270	1-249-397-11	CARBON	22	5% 1/4W	
R1271	1-249-397-11	CARBON	22	5% 1/4W	
**********					
*	1-642-220-11	POWER BOARD			
		**********			
	1-533-217-31	HOLDER, FUSE			
*	1-564-321-00	PIN, CONNECTOR 2P			
		< CAPACITOR >			
C1301	1-161-744-00	CERAMIC	0.01uF		400V
C1314	1-124-122-11	ELECT	100uF	20%	50V
C1315	1-124-927-11	ELECT	4.7uF	20%	100V
C1316	1-124-910-11	ELECT	47uF	20%	50V
C1348	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
* CN1301	1-564-509-11	PLUG, CONNECTOR 6P			
CN1302	1-506-469-11	CONNECTOR	4P, MALE		
* CN1350	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P			
		< DIODE >			
D1307	8-719-002-60	DIODE	UZL-33L		
D1309	8-719-014-66	DIODE	UZP-5.6B		
D1311	8-719-200-82	DIODE	11ES2		
		< FUSE >			
⚠ F1301	1-532-237-00	FUSE, TIME LAG (T3.15A) (AEP, G, IT, EE, UK)			
⚠ F1301	1-576-107-11	FUSE (T3.15A) (US, CND)			
⚠ F1302	1-532-237-00	FUSE, TIME LAG (T3.15A) (AEP, G, IT, EE, UK)			
⚠ F1302	1-576-107-11	FUSE (T3.15A) (US, CND)			
⚠ F1303	1-532-350-00	FUSE, TIME LAG (T4.0A) (AEP, G, IT, EE, UK)			
⚠ F1303	1-576-108-11	FUSE (T4.0A) (US, CND)			
⚠ F1304	1-532-350-00	FUSE, TIME LAG (T4.0A) (AEP, G, IT, EE, UK)			
⚠ F1304	1-576-108-11	FUSE (T4.0A) (US, CND)			
		< TRANSISTOR >			
Q1301	8-729-141-83	TRANSISTOR	2SB1094-LK		
		< RESISTOR >			
R1303	1-249-421-11	CARBON	2.2K	5% 1/4W	
R1304	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1391	1-202-725-00	SOLID	3.3M	10% 1/2W (US, CND)	
**********					
*	1-641-709-11	SW BOARD			
		********			
		< CAPACITOR >			
C701	1-124-903-11	ELECT	1uF	20% 50V	
		< CONNECTOR >			
* CNJ701	1-568-834-11	SOCKET, CONNECTOR 15P			
		< TRANSISTOR >			
Q701	8-729-900-89	TRANSISTOR	DTC144ES		
Q702	8-729-900-89	TRANSISTOR	DTC144ES		
Q703	8-729-900-89	TRANSISTOR	DTC144ES		
		< RESISTOR >			
R701	1-249-417-11	CARBON	1K	5% 1/4W	
R702	1-249-437-11	CARBON	47K	5% 1/4W	
R703	1-249-424-11	CARBON	3.9K	5% 1/4W	
R704	1-249-427-11	CARBON	6.8K	5% 1/4W	

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SW TC MAIN

Ref. No.	Part No.	Description			Remark
R705	1-249-421-11	CARBON	2.2K	5% 1/4W	
R706	1-249-416-11	CARBON	820	5% 1/4W	
R707	1-249-423-11	CARBON	3.3K	5% 1/4W	
		< SWITCH >			
S701	1-572-994-11	SWITCH, PUSH (3 KEY) (TAPE SELECT/DUBBING SPEED/DOLBY NR)			
**********					
*	A-4345-901-A	TC MAIN BOARD, COMPLETE (US, AEP, G, IT, EE, UK)			
*	A-4347-525-A	TC MAIN BOARD, COMPLETE (CND) **********			
	1-535-995-11	JUMPER, FILM (WITH TERMINAL)			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C400	1-162-289-31	CERAMIC	390PF	10% 50V	
C401	1-136-157-00	FILM	0.022uF	5% 50V	
C402	1-124-767-00	ELECT	2.2uF	20% 50V	
C403	1-124-443-00	ELECT	100uF	20% 10V	
C404	1-162-289-31	CERAMIC	390PF	10% 50V	
C405	1-136-157-00	FILM	0.022uF	5% 50V	
C406	1-124-767-00	ELECT	2.2uF	20% 50V	
C407	1-124-443-00	ELECT	100uF	20% 10V	
C408	1-130-479-00	MYLAR	0.0047uF	5% 50V	
C409	1-162-289-31	CERAMIC	390PF	10% 50V	
C410	1-124-903-11	ELECT	1uF	20% 50V	
C411	1-124-925-11	ELECT	2.2uF	20% 100V	
C413	1-124-472-11	ELECT	470uF	20% 10V	
C414	1-131-587-11	TANTALUM	0.68uF	5% 35V	
C415	1-124-257-00	ELECT	2.2uF	20% 50V	
C416	1-126-163-11	ELECT	4.7uF	20% 50V	
C417	1-124-465-00	ELECT	0.47uF	20% 50V	
C418	1-124-907-11	ELECT	10uF	20% 50V	
C419	1-124-907-11	ELECT	10uF	20% 50V	
C420	1-124-907-11	ELECT	10uF	20% 50V	
C421	1-162-284-31	CERAMIC	150PF	10% 50V	
C422	1-136-273-91	FILM	75PF	5% 630V	
C423	1-136-271-00	FILM	56PF	5% 630V	
C424	1-162-280-31	CERAMIC	82PF	10% 50V	
C441	1-162-282-31	CERAMIC	100PF	10% 50V	
C442	1-164-159-11	CERAMIC	0.1uF	50V	
C443	1-124-903-11	ELECT	1uF	20% 50V	
C446	1-162-282-31	CERAMIC	100PF	10% 50V	
C500	1-162-289-31	CERAMIC	390PF	10% 50V	
C501	1-136-157-00	FILM	0.022uF	5% 50V	
C502	1-124-767-00	ELECT	2.2uF	20% 50V	
C503	1-124-443-00	ELECT	100uF	20% 10V	
C504	1-162-289-31	CERAMIC	390PF	10% 50V	
C505	1-136-157-00	FILM	0.022uF	5% 50V	
C506	1-124-767-00	ELECT	2.2uF	20% 50V	
C507	1-124-443-00	ELECT	100uF	20% 10V	
C508	1-130-479-00	MYLAR	0.0047uF	5% 50V	
C509	1-162-289-31	CERAMIC	390PF	10% 50V	
C511	1-124-925-11	ELECT	2.2uF	20% 100V	
C513	1-124-472-11	ELECT	470uF	20% 10V	
C514	1-131-587-11	TANTALUM	0.68uF	5% 35V	
C515	1-124-257-00	ELECT	2.2uF	20% 50V	
C516	1-126-163-11	ELECT	4.7uF	20% 50V	
C517	1-124-465-00	ELECT	0.47uF	20% 50V	
C518	1-124-907-11	ELECT	10uF	20% 50V	
C520	1-124-907-11	ELECT	10uF	20% 50V	
C521	1-162-284-31	CERAMIC	150PF	10% 50V	
C522	1-136-273-91	FILM	75PF	5% 630V	
C523	1-136-271-00	FILM	56PF	5% 630V	
C524	1-162-280-31	CERAMIC	82PF	10% 50V	
C525	1-136-562-11	FILM	0.0082uF	5% 630V	
C526	1-130-482-00	MYLAR	0.0082uF	5% 50V	
C527	1-124-925-11	ELECT	2.2uF	20% 100V	
C528	1-130-482-00	MYLAR	0.0082uF	5% 50V	
C529	1-130-478-00	MYLAR	0.0039uF	5% 50V	
C530	1-130-478-00	MYLAR	0.0039uF	5% 50V	
C531	1-124-902-00	ELECT	0.47uF	20% 50V	
C532	1-124-925-11	ELECT	2.2uF	20% 100V	
C533	1-124-556-11	ELECT	2200uF	20% 16V	
C534	1-124-120-11	ELECT	220uF	20% 25V	
C535	1-124-927-11	ELECT	4.7uF	20% 100V	
C536	1-124-903-11	ELECT	1uF	20% 50V	
C540	1-124-472-11	ELECT	470uF	20% 10V	
C541	1-162-282-31	CERAMIC	100PF	10% 50V	
C542	1-164-159-11	CERAMIC	0.1uF	50V	
C546	1-162-282-31	CERAMIC	100PF	10% 50V	
C560	1-124-472-11	ELECT	470uF	20% 10V	
		< CONNECTOR >			
* CN400	1-564-506-11	PLUG, CONNECTOR 3P			
* CN401	1-564-509-11	PLUG, CONNECTOR 6P			
* CN402	1-564-505-11	PLUG, CONNECTOR 2P			
* CN405	1-560-061-00	PIN, CONNECTOR 3P			
* CN407	1-560-060-00	PIN, CONNECTOR 2P			
* CN410	1-564-506-11	PLUG, CONNECTOR 3P			
* CN411	1-564-508-11	PLUG, CONNECTOR 5P			
* CN412	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			

TC MAIN VOL

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D500	8-719-912-20	DIODE 1SS120			
D501	8-719-912-20	DIODE 1SS120			
D502	8-719-912-20	DIODE 1SS120			
D503	8-719-912-20	DIODE 1SS120			
D504	8-719-912-20	DIODE 1SS120			
D505	8-719-912-20	DIODE 1SS120			
D506	8-719-912-20	DIODE 1SS120			
D507	8-719-912-20	DIODE 1SS120			
		< IC >			
IC400	8-759-111-44	IC uPC4570C-1			
IC401	8-759-111-44	IC uPC4570C-1			
IC402	8-759-000-49	IC MC14066BCP			
IC403	8-752-057-21	IC CXA1100P			
IC404	8-752-038-02	IC CXA1198AP			
IC501	8-759-140-11	IC uPD4011BC			
IC502	8-759-040-01	IC MC14001BCP			
IC503	8-759-140-11	IC uPD4011BC			
IC515	8-759-604-86	IC M5F7807L			
IC516	8-759-604-90	IC M5F7907L			
		< COIL >			
L400	1-410-780-11	INDUCTOR 27mH			
L500	1-410-780-11	INDUCTOR 27mH			
		< TRANSISTOR >			
Q400	8-729-900-89	TRANSISTOR DTC144ES			
Q401	8-729-900-89	TRANSISTOR DTC144ES			
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q403	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q500	8-729-900-89	TRANSISTOR DTC144ES			
Q502	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q504	8-729-194-57	TRANSISTOR 2SC945-P			
Q505	8-729-194-57	TRANSISTOR 2SC945-P			
Q506	8-729-281-52	TRANSISTOR 2SC1815-Y			
Q507	8-729-900-61	TRANSISTOR DTA114ES			
Q508	8-729-900-80	TRANSISTOR DTC114ES			
Q509	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q511	8-729-900-65	TRANSISTOR DTA144ES			
Q512	8-729-900-89	TRANSISTOR DTC144ES			
		< RESISTOR >			
R415	1-215-460-00	METAL	43K	1%	1/6W
R417	1-249-437-11	CARBON	47K	5%	1/4W
R418	1-247-838-00	CARBON	2K	5%	1/4W
R431	1-249-435-11	CARBON	33K	5%	1/4W
R432	1-247-868-11	CARBON	36K	5%	1/4W
R433	1-247-883-00	CARBON	150K	5%	1/4W
R436	1-249-437-11	CARBON	47K	5%	1/4W
R437	1-249-437-11	CARBON	47K	5%	1/4W
R438	1-247-874-11	CARBON	62K	5%	1/4W
R439	1-249-440-11	CARBON	82K	5%	1/4W
R441	1-247-882-11	CARBON	130K	5%	1/4W
R442	1-249-435-11	CARBON	33K	5%	1/4W
R443	1-247-868-11	CARBON	36K	5%	1/4W
R446	1-249-438-11	CARBON	56K	5%	1/4W
R450	1-247-868-11	CARBON	36K	5%	1/4W
R451	1-247-872-11	CARBON	51K	5%	1/4W
R452	1-249-437-11	CARBON	47K	5%	1/4W
R453	1-247-881-00	CARBON	120K	5%	1/4W
R517	1-249-437-11	CARBON	47K	5%	1/4W
R518	1-247-838-00	CARBON	2K	5%	1/4W
R527	1-249-441-11	CARBON	100K	5%	1/4W
R532	1-249-393-11	CARBON	10	5%	1/4W
R538	1-249-385-11	CARBON	2.2	5%	1/6W
R539	1-249-392-11	CARBON	8.2	5%	1/4W
R540	1-249-392-11	CARBON	8.2	5%	1/4W
		< VARIABLE RESISTOR >			
RV400	1-230-496-11	RES, ADJ, CARBON 10K			
RV401	1-230-496-11	RES, ADJ, CARBON 10K			
RV402	1-230-496-11	RES, ADJ, CARBON 10K			
RV403	1-230-499-11	RES, ADJ, CARBON 100K			
RV500	1-230-496-11	RES, ADJ, CARBON 10K			
RV501	1-230-496-11	RES, ADJ, CARBON 10K			
RV502	1-230-496-11	RES, ADJ, CARBON 10K			
RV503	1-230-499-11	RES, ADJ, CARBON 100K			
RV504	1-230-495-11	RES, ADJ, CARBON 2.2K			
RV505	1-230-495-11	RES, ADJ, CARBON 2.2K			
		< RELAY >			
RY400	1-515-614-11	RELAY			
		< TRANSFORMER >			
T500	1-433-349-11	TRANSFORMER, BIAS OSCILLATION			
**********					
*	1-641-706-11	VOL BOARD			
		*********			
		< CAPACITOR >			
C1120	1-161-379-00	CERAMIC 0.01uF		20%	25V
		< VARIABLE RESISTOR >			
RV1109	1-241-350-11	RES, VAR, CARBON 100K/100K (VOLUME)			
**********					

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		************	
15	1-590-459-11	WIRE, FLAT TYPE (11 CORE)	
16	1-590-578-11	WIRE, FLAT TYPE (19 CORE)	
17	1-690-729-11	WIRE, FLAT TYPE (27 CORE)	
18	1-590-901-11	WIRE, FLAT TYPE (22 CORE)	
⚠306	8-848-144-11	DEVICE, OPTICAL KSS-240A	
⚠CNP1301	1-575-651-61	CORD, POWER (AEP, G, IT, EE)	
⚠CNP1301	1-575-652-61	CORD, POWER (UK)	
⚠CNP1301	1-690-609-11	CORD, POWER (US, CND)	
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE) (DECK B)	
HP1	1-543-319-11	HEAD, MAGNETIC (PB) (DECK A)	
HRP1	1-543-319-11	HEAD, MAGNETIC (REC/PB) (DECK B)	
M1	X-3362-377-1	MOTOR (WH) ASSY	
M101	X-4917-504-1	MOTOR ASSY (SLED)	
M102	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M191	A-4604-363-A	MOTOR (L) ASSY	
⚠S1301	1-572-267-61	SWITCH, PUSH (AC POWER) (1 KEY)	
⚠T1301	1-450-595-11	TRANSFORMER, POWER (AEP, G, IT, EE)	
⚠T1301	1-450-783-11	TRANSFORMER, POWER (UK)	
⚠T1301	1-450-817-11	TRANSFORMER, POWER (US)	
⚠T1301	1-450-818-11	TRANSFORMER, POWER (CND)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		********************************	
	1-465-962-11	COMMANDER (STANDARD TYPE) (RM-S171)	
	1-501-369-11	ANTENNA, LEAD	
	1-501-374-11	ANTENNA, LOOP	
*	3-376-136-01	CUSHION (HALF)	
	3-754-667-41	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP)	
	3-754-667-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP, IT)	
	4-921-934-01	SHEET, PROTECTION	
	4-948-236-01	CUSHION (UK)	
*	4-949-428-11	CUSHION (US, CND, AEP, G, IT)	
*	4-950-626-01	INDIVIDUAL CARTON (AEP, IT)	
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HARDWARE LIST

Ref. No.	Part No.	Description	Remark
#1	7-682-547-04	SCREW +BVTT 3X6 (S)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#4	7-621-849-00	SCREW, TAPPING	
#5	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
#6	7-685-135-19	SCREW +BTP 2.6X10 TYPE2 N-S	
#7	7-621-775-20	SCREW +B 2.6X5	
#8	7-685-133-19	SCREW +P 2.6X6 TYPE2	
#9	7-623-921-01	RING, RETAINING, CAPSTAN	
#10	7-688-001-01	W 2, SMALL	
#11	7-621-775-10	SCREW +B 2.6X4	
#12	7-621-255-15	SCREW +P 2X3	
#13	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

9-957-013-11

Sony Corporation
Audio Group

English
92C1894-1
Printed in Japan
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Published by Customer Relations and Service Group